

Safety Data Sheets

Compliance made easy.



SAFETY DATA SHEET



ORANGE SOLVENT

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: AP128 Version No: 2.3 Issue Date: 07/07/2021

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	ORANGE SOLVENT
Product code	AP128
Pack sizes	5L & 15L
Proper shipping name	DIPENTENE

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Carpet cleaning solvent booster

Details of the manufacturer/importer

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD	
Address	11 Gamma Close, Beresfield 2322 NSW Australia	
Telephone	(02) 4966 5516	
Website	www.actichem.com.au	
Email	info@actichem.com.au	

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	02 4966 5516

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	5	
GHS Classification	Aspiration Hazard Category 1, Flammable Liquid Category 3, SkinCorrosion/Irritation Category 2, Skin Sensitizer Category 1, STOT - SE (Narcosis) Category 3, Serious Eye Damage Category 2	
	Classification drawn from HCIS and ECHA C&L Inventory	

Label elements

Hazard pictograms







SIGNAL WORD DANGER

Hazard statement(s)

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Product Code: AP128 ORAI
Version No: 2.3

Precautionary	statement/	c) Provention
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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye protection.
P261	Avoid breathing mist or vapours.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P241	Use explosion-proof and intrinsically safe electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.	
P302+P352+P363+P333+P313	F ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs; get medical advice / attention.	
P305+P351+P338+P363+P313	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get nedical advice / attention.	
P304+P312+P340	FINHALED: Call a POISON CENTER or doctor if you feel unwell. Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P333+P313	If skin irritation or rash occurs, Get medical advice/attention	
P370+P378	In case of fire, use alcohol resistant foam or normal protein foam for extinction.	
P391	Collect spillage.	

Precautionary statement(s) Storage

P403+P405+P235+P233	Store locked up, in a well-ventilated place. Keep cool. Keep container tightly closed.
P410	Protect from sunlight.

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local government regulations

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures.

Mixtures

CAS No	%[weight]	Name
5989-27-5	30-60	d-limonene
64742-48-9.	30-60	naphtha petroleum, isoparaffin, hydrotreated
9016-45-9	<10	nonylphenol ethoxylates
64-17-5	<10	ethanol

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water for at least 15 minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical advice; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.			
Skin Contact	If skin or hair contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.			
Inhalation	If furnes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR i necessary. Transport to hospital, or doctor.			
Ingestion	Immediately seek medical advice. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Avoid giving milk or oils. Avoid giving alcohol.			

Indication of any immediate medical attention and special treatment needed.

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

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SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media

Foam.

Dry chemical powder.

BCF (where regulations permit).

Carbon dioxide.

Water spray or fog - Large fires only.

Special hazards arising from the substrate or mixture.

Fire incompatibilities

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control the fire and cool adjacent area. Avoid spraying water onto liquid pools. Do not approach containers suspected to be hot.
Fire/Explosion Hazard	Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon monoxide (CO), carbon dioxide (CO2), other pyrolysis products typical of burning organic material Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.

WARNING: Long standing in contact with air and light may result in the formation of potentially explosive peroxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

HAZCHEM

Personal precautions, protective equipment and emergency procedures

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Minor Spills	Remove all ignition sources. NO SMOKING Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wipe up spill using paper towel or equivalent and dispose of safely.
Major Spills	Immediately remove all possible sources of ignition. NO SMOKING. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labeled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle. CARE: Absorbent materials wetted with occluded oil must be moistened with water as they may auto-oxidize, become self-heating and ignite.
PPE	Personal Protective Equipment advice is contained in Section 8 of the SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe hand	ling
Safe handling	Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately. Check for bulging containers. Vent periodically Always release caps or seals slowly to ensure slow dissipation of vapours DO NOT allow clothing wet with material to stay in contact with skin
Other information	Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access. Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors. Keep adsorbents for leaks and spills readily available.

Protect containers against physical damage and check regularly for leaks.

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Conditions for safe storage, including any incompatibilities.

Suitable container	Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks.
Storage incompatibility	Reacts with strong oxidisers and may explode or combust. Is incompatible with strong acids , including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride

PACKAGE MATERIAL INCOMPATIBILITIES

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	naphtha petroleum, heavy, hydrotreated	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	ethanol, denatured	Ethyl alcohol	1880 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
EMERGENCY LIMITS						
Ingredient	Material name			TEEL-1	TEEL-2	TEEL-3
d-limonene	Limonene, d-			20 ppm	20 ppm	160 ppm
naphtha petroleum, isoparaffin, hydrotreated	Naphtha, hydrotreated heavy	Naphtha, hydrotreated heavy; (Isopar H-rev 2)			171 ppm	570 ppm
nonylphenol, ethoxylated	Glycols, polyethylene, mono(p-nonylphenol) ether; (Nonoxynol-9)			9.9 mg/m3	110 mg/m3	300 mg/m3
ethanol, denatured	Ethyl alcohol			Not Available	Not Available	Not Available

Exposure controls

Appropriate engineering controls	Always maintain adequate ventilation. In most circumstances natural ventilation systems are adequate. If ventilation is not adequate, then the use of a local exhaust system is recommended
Personal protection	
Eye and face protection	Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent].
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves. Nitrile, PVA or Viton are recommended for this application.
Body protection	See Other protection below
Other protection	Not usually required.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear colourless liquid		
Physical state	Liquid	Relative density (Water = 1)	0.94
Melting point / freezing point (°C)	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature(°C)	Not Available
Initial boiling point and boiling range (°C))	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Odour	Strong citrus	Viscosity (cSt)	Not Available
pH (as supplied)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Decomposition temperature	Not Available
Lower Explosive Limit(%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

Page **5** of **7** orange solvent

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SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials.Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Accidental ingestion of the material may be damaging to the health of the individual. Isoparaffinic hydrocarbons cause temporary lethargy, weakness, incoordination and diarrhoea.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

Toxicological effects of ingredients

d-limonene	Acute toxicity	Oral LD50 (rat) 4400 mg/kg Dermal LD50 (rabbit) >5000 mg/kg
	Skin corrosion/irritation	Causes skin irritation
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	May cause an allergic skin reaction
	Germ cell mutagenicity	No data available
	Carcinogenicity	No data available
	Reproductive toxicity	No data available
	STOT (single exposure)	No data available
	STOT (repeated exposure)	No data available
	Aspiration toxicity	May be fatal if swallowed and enters airways
naphtha petroleum,	Acute toxicity	Oral LD50 (rat) >5000 mg/kg
hydrotreated heavy	Skin corrosion/irritation	Mildly irritating to skin with prolonged exposure (Based on test data for structurally similar materials)
	Eye damage/irritation	May cause mild, short-lasting discomfort to eyes (Based on test data for structurally similar materials)
	Respiratory/skin sensitization	Not expected to be a respiratory or skin sensitiser. (Based on test data for structurally similar materials)
	Germ cell mutagenicity	Not expected to be a germ cell mutagen (Based on test data for structurally similar materials)
	Carcinogenicity	Not expected to cause cancer (Based on test data for structurally similar materials)
	Reproductive toxicity	Not expected to be a reproductive toxicant (Based on test data for structurally similar materials)
	STOT (single exposure)	Not expected to cause organ damage from a single exposure. Negligible hazard at ambient/normal handling temperatures. Vapour/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects including death.
	STOT (repeated exposure)	Not expected to cause organ damage from prolonged or repeated exposure (Based on test data for structurally similar materials). Prolonged and repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis
	Aspiration toxicity	May be fatal if swallowed and enters airways (Based on physicochemical properties of the material). Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.
nonylphenol ethoxylated	Acute toxicity	Oral LD50 (mouse) 4290 mg/kg
	Skin corrosion/irritation	moderate to severe irritation.
	Eye damage/irritation	moderate to severe irritation
	Respiratory/skin sensitization	Not sensitizing
	Germ cell mutagenicity	Not genotoxic
	Carcinogenicity	No Data Available
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
ethanol	Acute toxicity	Oral LD50 (mouse) 3450 mg/kg Inhalation LC50 (rat) 2000 ppm/10hrs
	Skin corrosion/irritation	Irritating to skin. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis.
	Eye damage/irritation	Irritating to eyes. Exposure may result in lacrimation, irritation, pain and redness
	Respiratory/skin sensitization	No Data Available
	Germ cell mutagenicity	No Data Available
	Carcinogenicity	No Data Available
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	Chronic ingestion may result in cirrhosis of the liver
	Aspiration toxicity	No Data Available

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SECTION 12 ECOLOGICAL INFORMATION

Toxicity

 $\label{thm:condition} \textit{Very toxic to aquatic organisms}, \textit{may cause long-term adverse effects in the aquatic environment.}$

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high watermark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. DO NOT discharge into sewer or waterways.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites

33.6	Endpoint	Test Duration (hr)	Species	Value
d-limonene	LC50	96	Fish	0/L.46mg
	EC50	48	Crustacea	0.307mg/L
	NOEC	504	Crustacea	0.05mg/
naphtha petroleum, heavy,	LC50	96	Fish	4.1mg/L
hydrotreated	EC50	48	Crustacea	4.5mg/L
	EC50	72	Algae or other aquatic plants	>1-mg/L
	NOEL	72	Algae or other aquatic plants	0.1mg/L
nonylphenol ethoxylates	LC50	48	Crustacea	1.43mg/L
	EC50	72	Algae or other aquatic plants	2.5mg/L
ethanol, denatured	LC50	96	Fish	42-mg/L
	EC50	48	Crustacea	2-mg/L
	EC50	96	Algae or other aquatic plants	-8.358-26.503mg/L
	EC10	168	Algae or other aquatic plants	1.91-mg/L
	NOEC	2016	Fish	0.000375-mg/L

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
d-limonene	HIGH	HIGH

Bio accumulative potential

Ingredient	Bioaccumulation
d-limonene	HIGH (LogKOW = 4.8275)

Mobility in soil

Ingredient	Mobility
d-limonene	LOW (KOC = 1324)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal

Containers may still present a chemical hazard/ danger when empty.

Recycle containers whenever possible.

Product residues and containers should be disposed of in accordance with local government regulations

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant



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Limited Quantities

HAZCHEM

Land transport (ADG)

Land transport (ADG)	
UN number	2052
Packing group	III
UN proper shipping name	DIPENTENE
Environmental hazard	No relevant data
Transport hazard class(es)	Class 3 Sub risk Not Applicable
Special precautions for user	Special provisions Not applicable

Product Code: AP128 OR/ Version No: 2.3

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

D-LIMONENE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

NAPHTHA PETROLEUM, HEAVY, HYDROTREATED IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

NONYLPHENOL ETHOXYLATES IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)
Chemical Footprint Project - Chemicals of High Concern List

ETHANOL, DENATURED IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	01/07/2021
Initial Date	18/11/2016

SDS Version Summary

Version	Issue Date	Sections Updated
2.1	19/10/2020	Sections 2,3,4,5,6,8,11,12,14,15,16 have been updated or corrected
2.2	01/07/2021	Section 16
2.3	07/07/2021	Sections 2, 3, 8, 11, 12, 15

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

DISCLAIMER: While the information in this Safety Data Sheet (SDS) is believed to be true and accurate based on the current level of knowledge available to us, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the control of APPLIED PRODUCTS AUSTRALIA PTY LTD and therefore the users are responsible to verify this data under their own particular conditions of use, applications and regulations to determine whether the product is suitable for their particular purpose and they assume all risks of their use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures, or processes

Definitions and abbreviations

PC-TWA; Permissible Concentration-Time Weighted Average
PC-STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Government Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

IDLH: Immediate Danger to Life or Health Concentrations

OSF: Odour Safety Factor
NOAEL: No Observed Effects Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BGF: Bio Concentration Factors
BEI: Biological Exposure Index

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End of SDS

SAFETY DATA SHEET



OXYBOOST PLUS

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: AP446.01 Version No: 2.1 Issue date: 08/03/2021

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	OXYBOOST PLUS	
Product code	AP446.01	
Pack sizes	1kg	

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Oxygen powered destainer and booster

Details of the supplier of the safety data sheet

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD	
Address	1 Gamma Close, Beresfield 2322 NSW Australia	
Telephone	02) 4966 5516	
Website	www.actichem.com.au	
Email	info@actichem.com.au	

Emergency telephone number

Association / Organisation	Poisons Information Centre	
Emergency telephone numbers	13 11 26	
Other emergency telephone numbers	Not Available	

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	6	
GHS Classification	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Oxidizing Solid Category 2, STOT (Single Exposure) Category 3	
	Classification drawn from HCIS and ECHA C&L Inventory.	

Label elements

Hazard Pictograms







SIGNAL WORD	DANGER	
Hazard statement(s)		
H272	May intensify fire; oxidizer	
H302	Harmful if swallowed	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H335	May cause respiratory irritation.	
ALIH066	Reneated evangure may cause skin dryness and cracking	

Issue Date: 08/03/2021

OXYBOOST PLUS Product Code: AP446.01

Precautionary statement(s) Prevention

Version No: 2.1

P210	Keep away from heat / sparks / open flames / hot surfaces No smoking.	
P221	Take any precaution to avoid mixing with combustibles / organic material.	
P280	lear eye protection.	
P220	eep / Store away from clothing / organic material / combustible materials.	
P270	Do not eat, drink or smoke when using this product.	
P261	Avoid breathing dust	
P271	Use only outdoors or in a well-ventilated area.	
P264	Wash exposed skin thoroughly after handling.	

Precautionary statement(s) Response

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P305+P310+P351+P338	IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P302+P352+P362+P332+P313	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice / attention.	
P301+P330+P312	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.	
P304+P340+P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.	
P370+P378	In case of fire: Use water spray/fog for extinction.	

Precautionary statement(s) Storage

P405+P403+P233 Store locked up in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

P501 Dispose of contents / container in accordance with local regulations

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
15630-89-4	>60	sodium percarbonate

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Obtain medical advice / attention without delay. Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If required, transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the meantime, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Hydrogen peroxide at moderate concentrations (5% or more) is a strong oxidant.

Direct contact with the eye is likely to cause corneal damage especially if not washed immediately. Careful ophthalmologic evaluation is recommended and the possibility of local corticosteroid therapy should be considered.

OXYBOOST PLUS Issue Date: 08/03/2021 Product Code: AP446.01 Version No: 2.1

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

NOTE: Chemical extinguishing agents may accelerate decomposition. [CCINFO]

FOR SMALL FIRE:

Extinguishing media

Use flooding quantities of water. DO NOT use dry chemical, CO2, foam or halogenated-type extinguishers.

FOR LARGE FIRE

Flood fire area with water from a protected position

Special hazards arising from the substrate or mixture

Fire incompatibilities	Avoid storage with reducing agents.
	Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous

Advice for firefighters	
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water courses. Fight fire from a safe distance, with adequate cover. Extinguishers should be used only by trained personnel. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	Will not burn but increases intensity of fire. Heating may cause expansion or decomposition leading to violent rupture of containers. Heat affected containers remain hazardous. Contact with combustibles such as wood, paper, oil or finely divided metal may produce spontaneous combustion or violent decomposition. May emit irritating, poisonous or corrosive fumes.
HAZCHEM	1Y

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	No smoking, naked lights, ignition sources. Avoid all contact with any organic matter including fuel, solvents, sawdust, paper or cloth and other incompatible materials, as ignition may result. Avoid breathing dust and all contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Socop up solid residues and seal in labelled drums for disposal. Flush away with copious amounts of water. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive.
Major Spills	Wear full be the day free extinctive clothing with breathing apparatus. Consider evacuation (or protect in place). No smoking, flames or ignition sources. Increase ventilation.
PPE	Personal Protective Equipment advice is contained in Section 8 of the SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Provide adequate ventilation. Avoid personal contact and inhalation of dust. Always wear protective equipment and wash off any spillage from clothing. Keep material away from light, heat, flammables or combustibles. Keep cool, dry and away from incompatible materials. Avoid physical damage to containers. DO NOT repack or return unused portions to original containers. Withdraw only sufficient amounts for immediate use. Use only minimum quantity required. Avoid using solutions of peroxides in volatile solvents.
Other information	Store in original containers. Keep containers securely sealed as supplied. Store in a cool, well ventilated area. Keep dry. Store under cover and away from sunlight. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from incompatible materials and foodstuff containers.

OXYBOOST PLUS Issue Date: 08/03/2021 Product Code: AP446.01

Conditions for safe storage, including any incompatibilities.

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.		
Storage incompatibility	This product contains hydrogen peroxide which is a powerful oxidiser Avoid contamination with reducing agents, acids, alkalis, organic solvents, metallic salts. Avoid combustible materials and liquids. Keep away from combustible materials such as cloths, wood and sawdust. Keep out of sunlight.		

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Version No: 2.1

No data available

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
sodium percarbonate	sodium percarbonate		Not Available	Not Available	Not Available
Ingredient	gredient Original IDLH Revised IDLH				
sodium percarbonate	Not Available	Not Available			

Exposure controls

Appropriate engineering controls	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended.		
Personal protection			
Eye and face protection	Chemical goggles. Full face shield may be required for supplementary but never for primary protection of eyes. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. Lens should be removed in a clean environment only after workers have washed hands thoroughly.		
Skin protection	See Hand protection below		
Hands/feet protection	Wear chemical protective gloves, e.g. Neoprene Hand cream offers no protection for hydrogen peroxide and should not be used.		
Body protection	See Other protection below		
Other protection	Overalls. PVC Apron. Eyewash unit. Ensure there is ready access to a safety shower.		
Thermal hazards	Not Available		

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White free flowing powder		
Physical state	Powder	Relative density (Water = 1)	Not Available
Odour	Not Available	Viscosity (cSt)	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	10.0	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Partition coefficient n- octanol / water	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

Issue Date: 08/03/2021

OXYBOOST PLUS Product Code: AP446.01 Version No: 2.1

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7	
Chemical stability	stable in the presence of incompatible materials. bduct is considered stable under normal handling conditions. stardous polymerisation will not occur. stable if submitted to prolonged exposure to heat	
Possibility of hazardous reactions	See section 7	
Conditions to avoid	See section 7	
Incompatible materials	See section 7	
Hazardous decomposition products	See section 5	

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.	
Ingestion	Accidental ingestion of the material may be harmful.	
Skin Contact	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.	
Eye	If applied to the eyes, this material causes severe eye damage.	
Chronic	Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.	

Toxicological effects of ingredients

sodium percarbonate	Acute toxicity	Oral LD50 (rat) 1034 – 2000 mg/kg Dermal LD50 (rabbit) >2000 mg/kg
	Skin corrosion/irritation	Mild irritant (Rabbit).
	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	Not a skin sensitizer
	Germ cell mutagenicity	No adverse effect observed in tests conducted
	Carcinogenicity	Not a carcinogen
	Reproductive toxicity	Unlikely to be toxic to reproduction
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	Endpoint	Duration (Hr.)	Species	Value
sodium percarbonate	EC50	48	Crustacea	=4.9mg/L
	NOEC	48	Crustacea	=2mg/L

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
No data available		

Bio accumulative potential

Ingredient	Bioaccumulation
No data available	

Mobility in soil

Ingredient	Mobility
No data available	

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations
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Product Code: AP446.01 OXYBOOST PLUS Issue Date: 08/03/2021

SECTION 14 TRANSPORT INFORMATION

Labels Required

Version No: 2.1

Marine Pollutant	NO
HAZCHEM	1Y

Land transport (ADG) - NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS IN PACK SIZES OF 1KG OR LESS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

SODIUM PERCARBONATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

SECTION 16 OTHER INFORMATION

Revision Schedule

CONTROL CONTRO	
Revision Date	08/03/2021
Initial Date	08/12/2016

SDS Version Summary

Version	Issue Date	Sections Updated
2.1	08/03/2021	Sections 2, 11, 12, 15, 16 have been updated or corrected

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

DISCLAIMER: While the information in this Safety Data Sheet (SDS) is believed to be true and accurate based on the current level of knowledge available to us, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the control of APPLIED PRODUCTS AUSTRALIA PTY LTD and therefore the users are responsible to verify this data under their own particular conditions of use, applications and regulations to determine whether the product is suitable for their particular purpose and they assume all risks of their use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures, or processes.

Definitions and abbreviations

PC-TWA; Permissible Concentration-Time Weighted Average
PC-STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Government Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

IDLH: Immediate Danger to Life or Health Concentrations
OSF: Odour Safety Factor

NOAEL: No Observed Effects Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: Bio Concentration Factors
BEI: Biological Exposure Index

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End of SDS

SAFETY DATA SHEET



CONQUER

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: AP462 Version No: EP1.4 Issue date: 08/12/2021

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Trouble technical	
Product name	CONQUER
Synonyms	AP462
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Multi task encapsulating carpet stain remover

Details of the manufacturer/importer

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD (Actichem Pty Ltd)
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Fax	(02) 4966 5510
Website	www.actichem.com.au
Email	info@actichem.com.au

Emergency telephone number

	Association / Organisation	Poisons Information Centre
	Emergency telephone numbers	13 11 26
,	Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

 $NON-HAZARDOUS\ CHEMICAL.\ NON-DANGEROUS\ GOODS.\ According\ to\ the\ Model\ WHS\ Regulations\ and\ the\ ADG\ Code.$

Poisons Schedule	Not Applicable
GHS Classification [1]	Not Applicable
Label elements	
GHS label elements	Not applicable
SIGNAL WORD	NOT APPLICABLE

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

D102	Keep out of reach of children
P102	neep out or reach or children

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents and containers in accordance with local regulations	
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Product Code: **AP462** Version No: EP**1.4** Issue Date: **08/12/2021**Print Date: **08/12/2021**

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

All ingredients are non-hazardous or below cut=off limits

Mixtures

С	AS No	%[weight]	Name
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SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs with concentrate: Flush skin and hair with running water. Seek medical advice in event of irritation.
Inhalation	Not applicable
Ingestion	Do NOT induce vomiting. Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

There is no restriction on the type of extinguisher which ma	v be used

Special hazards arising from the substrate or mixture

Fire incompatibility	None known
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Advice for firefighters

Advice for intenginers	
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard.
Fire/Explosion Hazard	Non-combustible.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Flush away with copious amounts of water.
Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle. Prevent by any means available any spillage entering a watercourse.	
	Personal protective equipment advice is contained in Section 8 of this SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Wear suitable protective clothing depending on the circumstances. Do not mix with other chemicals unless expressly recommended by the manufacturer. Always store in original container.
Other information	

Conditions for safe storage, including any incompatibilities

Suitable container	Polyethylene or polypropylene container
Storage incompatibilities	Strong acids and oxidizing agents

PACKAGE MATERIAL INCOMPATIBILITIES

Product Code: **AP462** Version No: EP**1.4** Issue Date: **08/12/2021** Print Date: **08/12/2021**

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

Exposure controls

Appropriate engineering controls	Not required
Personal protection	
Eye and face protection	It is a good practice to wear gloves to prevent drying of the skin.
Hands/feet protection	Not applicable

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear gold yellow liquid		
Physical state	Liquid	Relative density (Water = 1)	1.0
Odour	Baby powder	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	7.5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Reactivity	See Seulon /
Chemical stability	Unstable in the presence of incompatible materials.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Mists from the product may cause irritation to the nose, throat and respiratory system with effects including; coughing and discomfort.	
Ingestion	May cause irritation to the mouth, throat and stomach.	
Skin Contact	No adverse effects listed.	
Eye	May cause irritation.	
Chronic	Extended period of contact may cause irritation in sensitive individuals.	

Product Code: **AP462** Version No: EP**1.4** Issue Date: **08/12/2021**Print Date: **08/12/2021**

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

No data available.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bio accumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations.
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SECTION 14 TRANSPORT INFORMATION

Labels Required

·	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

Not Applicable

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at: www.chemwatch.net/references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA; Permissible Concentration-Time Weighted Average
PC-STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Government Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

IDLH: Immediate Danger to Life or Health Concentrations

OSF: Odour Safety Factor
NOAEL: No Observed Effects Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: Bio Concentration Factors
BEI: Biological Exposure Index

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SAFETY DATA SHEET



ACTICHEM VDS

APPLIED PRODUCTS AUSTRALIA PTY LTD

Catalogue number: **AP480.05** Version No: **2.1** Issue date: **28/07/2021**

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	ACTICHEM VDS
Product code	AP480.05
Pack sizes	500ml & 5L
UN Proper shipping name	FLAMMABLE LIQUID, N.O.S.

Relevant identified uses of the substance or mixture and uses advised against

Details of the manufacturer/importer

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Website	www.actichem.com.au
Email	info@actichem.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 11 26
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

 ${\it HAZARDOUS\ CHEMICAL.\ DANGEROUS\ GOODS.\ According\ to\ the\ Model\ WHS\ Regulations\ and\ the\ ADG\ Code.}$

Poisons Schedule	6	
GHS Classification	Aspiration Hazard Category 1, Reproductive Toxicity Category 1B, Flammable Liquid Category 3, Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1, Eye Irritation Category 2	
	Classification drawn from HCIS and ECHA C&L Inventory.	

Label elements

Hazard pictograms







Hazard statement(s)

AUH066	Repeated exposure may cause skin dryness and cracking	
H226	mmable liquid and vapour	
H304	May be fatal if swallowed and enters airways	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H360D	May damage the unborn child	

Product Code: AP480.05 **ACTICHEM VDS** Issue Date: 28/07/2021 Version No: 2.1

Precautionary statement(s) Prevention		
P201	Obtain special instructions before use.	
P202	Do not handle until all safety instructions have been read and understood.	
P281	Use personal protective equipment as required	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO SMOKING	
P233	Keep container tightly closed.	
P240	Fround/Bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge	
P280	Wear protective gloves and eye protection.	
P264	Wash exposed skin thoroughly after handling.	
P272	Contaminated clothing should nor be allowed out of the workplace.	
P261	Avoid breathing mist/vapour/spray.	
P273	Avoid release to the environment.	

Precautionary statement(s) Response

P301+P313+P330+P331	IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting.	
P303+P361+P353+P333+P313	IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.	
P305+P351+P338+P337+P313	I EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get ical advice/attention.	
P304+P340	FINHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.	
P308+P313	If exposed or concerned: Get medical advice/attention.	
P391	Collect spillage.	
P362+P364	Take off contaminated clothing and wash it before re-use.	
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.	

Precautionary statement(s) Storage

P403+P405+P233	Store locked up, in a well-ventilated place. Keep container tightly closed.	
P410+P235	Protect from sunlight. Keep cool	

Precautionary statement(s) Disposal

Dispose of contents/container in compliance with local government regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures.

Mixtures

CAS No	%[weight]	Name
111-76-2	30-60	ethylene glycol monobutyl ether
64742-48-9.	30-60	Naphtha, petroleum, hydrotreated heavy
67-63-0	10-30	<u>isopropanol</u>
5989-27-5	<10	<u>d-limonene</u>
872-50-4	<10	N-methyl-2-pyrrolidone

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If eye contact occurs Wash out immediately with fresh running water for at least 15 minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical advice; if pain persists or recurs seek medical attention.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.

ACTICHEM VDS Product Code: AP480.05 Issue Date: 28/07/2021 Version No: 2.1

ved do **NOT** induce vomiting.

If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

Observe the patient carefully.

Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink

Ingestion Seek medical advice

Avoid giving milk or oils

Avoid giving alcohol.

If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media

Alcohol stable foam Dry chemical powder

BCF (where regulations permit). Carbon dioxide

Water spray or fog - large fires only.

Special hazards arising from the substrate or mixture.

Fire incompatibility

Fire Fighting

Avoid contamination with oxidising agents i.e., nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive

Wear breathing apparatus plus protective gloves in the event of a fire.

Prevent, by any means available, spillage from entering drains or water course.

Consider evacuation (or protect in place).

Fight fire from a safe distance, with adequate cover.

If safe, switch off electrical equipment until vapour fire hazard removed.

Use water delivered as a fine spray to control the fire and cool adjacent area.

Avoid spraying water onto liquid pools.

Do not approach containers suspected to be hot.

Fire/Explosion Hazard

Liquid and vapour are highly flammable.

Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition.

Heating may cause expansion or decomposition leading to violent rupture of containers.

Combustion products include carbon dioxide (CO2) carbon monoxide (CO), other pyrolysis products typical of burning organic material.

Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions

HAZCHEM

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove all ignition sources.

Minor Spills

lean up all spills immediately.

Avoid breathing vapours and contact with skin and eyes.

Control personal contact with the substance, by using protective equipment.

Mop up using paper towel or equal and dispose of safely.

Major Spills

Remove all possible sources of ignition. NO SMOKING.

Increase ventilation.

Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labeled drums and dispose of according to local government regulations.

Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.

Personal protective equipment advice is contained in Section 8 of this SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Containers, even those that have been emptied, may contain explosive vapours.

Do NOT cut, drill, grind, weld or perform similar operations on or near containers.

Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately.

Check for bulging containers. Vent periodically

Safe handling

Always release caps or seals slowly to ensure slow dissipation of vapours

DO NOT allow clothing wet with material to stay in contact with skin

Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Prevent concentration in hollows and sumps.

DO NOT enter confined spaces until atmosphere has been checked

Avoid smoking, naked lights, heat or ignition sources.

Other information

Store in original containers in approved flame-proof area

Wear personal protective clothing when risk of exposure occurs

Issue Date: 28/07/2021

Product Code: AP480.05 **ACTICHEM VDS** Version No: 2.1

Conditions for safe storage, including any incompatibilities.

Suitable container	DO NOT use aluminium or galvanised containers Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks.
Storage incompatibility	Strong oxidisers. Strong acids and alkalis.

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	96.9 mg/m3/20 ppm	242 mg/m3/ 50 ppm	Not Available	Sk
Australia Exposure Standards	naphtha, petroleum, hydrotreated heavy	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	isopropanol	Isopropyl alcohol	983 mg/m3 / 400 ppm	1230 mg/m3 / 500 ppm	Not Available	Not Available
Australia Exposure Standards	N-methyl-2-pyrrolidone	1-Methyl-2-pyrrolidone	103 mg/m3 / 25 ppm	309 mg/m3 / 75 ppm	Not Available	Sk

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB)	20 ppm	20 ppm	700 ppm
naphtha, petroleum, hydrotreated heavy	Naphtha, hydrotreated heavy; (Isopar H-rev 2)	171 ppm	171 ppm	570 ppm
isopropanol	Isopropyl alcohol	400 ppm	400 ppm	12000 ppm
d-limonene	Limonene, d-	20 ppm	20 ppm	160 ppm
N-methyl-2-pyrrolidone	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	10 ppm	10 ppm	10 ppm

Ingredient	Original IDLH	Revised IDLH
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm
naphtha, petroleum, hydrotreated heavy	Not Available	Not Available
isopropanol	12,000 ppm	2,000 [LEL] ppm
d-limonene	Not Available	Not Available
N-methyl-2-pyrrolidone	Not Available	Not Available

Exposure controls

Appropriate engineering controls	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is not adequate, then the use of a local exhaust system is recommended.
Personal protection	
Eye and face protection	Safety glasses with side shields or chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. Lens should be removed in a clean environment only after workers have washed hands thoroughly.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.
Body protection	Not usually needed.
Other protection	Use suitable respiratory equipment if there is inadequate ventilation.
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear colourless liquid		
Physical state	Liquid	Relative density (Water = 1)	0.834
Odour	Solvent/orange	Partition coefficient	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Viscosity (cSt)	Not Available

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Melting point / freezing point (°C)	Not Available	Initial boiling point and boiling range (°C)	Not Available
Decomposition temperature	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. The material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time.
Eye	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.

Toxicological effects of ingredients

naphtha petroleum,	Acute toxicity	Oral LD50 (rat) >5000 mg/kg Dermal LD50 (rabbit) >5000 mg/kg Inhalation LC50 (rat) >5000 mg/m3 (8hr)
hydrotreated heavy	Skin corrosion/irritation	Mildly irritating to skin with prolonged exposure (Based on test data for structurally similar materials)
	Eye damage/irritation	May cause mild, short-lasting discomfort to eyes (Based on test data for structurally similar materials)
	Respiratory/skin sensitization	Not expected to be a respiratory or skin sensitiser. (Based on test data for structurally similar materials)
	Germ cell mutagenicity	Not expected to be a germ cell mutagen (Based on test data for structurally similar materials)
	Carcinogenicity	Not expected to cause cancer (Based on test data for structurally similar materials)
	Reproductive toxicity	Not expected to be a reproductive toxicant (Based on test data for structurally similar materials)
	STOT (single exposure)	Not expected to cause organ damage from a single exposure. Negligible hazard at ambient/normal handling temperatures. Vapour/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects including death.
	STOT (repeated exposure)	Not expected to cause organ damage from prolonged or repeated exposure (Based on test data for structurally similar materials). Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis
	Aspiration toxicity	May be fatal if swallowed and enters airways (Based on physicochemical properties of the material). Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.
ethylene glycol monobutyl	Acute toxicity	Oral LD50 (guinea pig) 1414 mg/kg Dermal LD50 (guinea pig) >2000 mg/kg Inhalation LC0 >3.1 mg/l>641 ppm 1h
ether	Skin corrosion/irritation	Causes skin irritation.
	Eye damage/irritation	Causes serious eye irritation.
	Respiratory/skin sensitization	Not classified No study available.
	Germ cell mutagenicity	Not classified
	Carcinogenicity	Not classified
	Reproductive toxicity	Not classified
	STOT (single exposure)	High concentrations may cause central nervous system depression
	STOT (repeated exposure)	Based on repeated exposure toxicity values, not classified
	Aspiration toxicity	Based on physico-chemical values or lack of human evidence. Not classified
isopropanol	Acute toxicity	Oral LD50 (rat) 5045 – 5840 mg/kg Dermal LD50 (rabbit) 12800 mg/kg Inhalation LC50 (rat) 16000 ppm/8h
	Skin corrosion/irritation	May be irritating to skin
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	Not expected to be a sensitizer
	Germ cell mutagenicity	Not considered to be a mutagenic hazard
	Carcinogenicity	Not considered to be a carcinogenic hazard.
	Reproductive toxicity	Not considered to be toxic to reproduction
	STOT (single exposure)	May cause drowsiness or dizziness
	STOT (repeated exposure)	Not expected to cause toxicity to a specific organ
	Aspiration toxicity	Not expected to be an aspiration hazard

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d-limonene	Acute toxicity	Oral LD50 (rat) 4400 mg/kg Dermal LD50 (rabbit) >5000 mg/kg
	Skin corrosion/irritation	Causes skin irritation
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	May cause an allergic skin reaction
	Germ cell mutagenicity	No data available
	Carcinogenicity	No data available
	Reproductive toxicity	No data available
	STOT (single exposure)	No data available
	STOT (repeated exposure)	No data available
	Aspiration toxicity	May be fatal if swallowed and enters airways
N-methyl-2-pyrrolidone	Acute toxicity	LD50 Oral - Rat - 3,914 mg/kg LD50 Dermal - Rabbit - 8,000 mg/kg LDLO Inhalation - Rat - 4 h - > 5100 ppm
	Skin corrosion/irritation	Irritating to skin. May cause harm to the unborn child
	Eye damage/irritation	Irritating to eyes.
	Respiratory/skin sensitization	No Data Available
	Germ cell mutagenicity	No Data Available
	Carcinogenicity	No Data Available
	Reproductive toxicity	May cause harm to the unborn child
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	Bone marrow - Irregularities - Based on Human Evidence
	Aspiration toxicity	No Data Available

SECTION 12 ECOLOGICAL INFORMATION

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	Endpoint	Duration (Hr.)	Species	Value
naphtha, petroleum,	EC50(ECx)	96	Algae or other aquatic plants	64mg/l
hydrotreated heavy	EC50	96	Algae or other aquatic plants	64mg/l
thylene glycol monobutyl	LC50	96	Fish	1-250mg/L
ether	EC50	48	Crustacea	>1-mg/L
	EC50	96	Algae or other aquatic plants	>1-mg/L
	NOEC	24	Crustacea	>1-mg/L
Isopropanol	LC50	96	Fish	9-640mg/L
	EC50	48	Crustacea	12500mg/L
	EC50	72	Algae or other aquatic plants	>1000mg/L
	EC0	24	Crustacea	5-102mg/L
	NOEC	504	Crustacea	=30mg/L
d-limonene	LC50	96	Fish	0.46mg/L
	EC50	48	Crustacea	0.307mg/L
	EC50	72	Algae or other aquatic plants	0.214mg/L
	NOEC	0	Algae or other aquatic plants	<0.05-1.5mg/L
N-methyl-2-pyrrolidone	LC50	96	Fish	>500mg/L
	EC50	48	Crustacea	ca.4897mg/L
	EC50	72	Algae or other aquatic plants	>500mg/L
	EC10	72	Algae or other aquatic plants	92.6mg/L
	NOEC	504	Crustacea	12.5mg/L

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high watermark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
d-limonene	HIGH	HIGH
N-methyl-2-pyrrolidone	LOW	LOW

Bio accumulative potential

Ingredient	Bioaccumulation
ethylene glycol monobutyl ether	LOW (BCF = 2.51)
isopropanol	LOW (LogKOW = 0.05)
d-limonene	HIGH (LogKOW = 4.8275)
N-methyl-2-pyrrolidone	LOW (BCF = 16)

Mobility in soil

Ingredient	Mobility
ethylene glycol monobutyl ether	HIGH (KOC = 1)
isopropanol	HIGH (KOC = 1.06)
d-limonene	LOW (KOC = 1324)
N-methyl-2-pyrrolidone	LOW (KOC = 20.94)

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SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal

Containers may still present a chemical hazard/ danger when empty.

Take care to dispose of product / containers in a manner compliant with local government regulations

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant



HAZCHEM

•3YE

Land transport (ADG) - NOT REGULATED FOR THE TRANSPORTATION OF DANGEROUS GOODS IN PACK SIZES OF 5L OR LESS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

NAPHTHA PETROLEUM, HEAVY, HYDROTREATED IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) – Agents classified by AIRC monographs.

ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

D-LIMONENE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

N-METHYL-2-PYRROLIDONE (872-50-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC) Chemical Footprint Project - Chemicals of High Concern List

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	28/07/2021
Initial Date	27/03/2017

SDS Version Summary

Version	Issue Date	Sections Updated
2.1	28/07/2021	Sections 2, 3, 11, 12, 15, 16 have been updated or corrected

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

PC-TWA; Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer

ACGIH: American Conference of Government Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

IDLH: Immediate Danger to Life or Health Concentrations

OSF: Odour Safety Factor NOAEL: No Observed Effects Level Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: **Bio Concentration Factors** BEI: Biological Exposure Index

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End of SDS

SAFETY DATA SHEET



ACTICHEM POG

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: AP482 Version No: 2.1 Issue date: 26/02/2021

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	ACTICHEM POG
Product code	AP482
Pack sizes	500ml & 5L

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Paint, Oil and Grease Remover for Carpets & Hard Surfaces

Details of the supplier of the safety data sheet

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD	
Address	11 Gamma Close, Beresfield 2322 NSW Australia	
Telephone	(02) 4966 5516	
Website	www.actichem.com.au	
Email	info@actichem.com.au	

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	6	
GHS Classification	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, STOT - SE (Resp. Irr.) Category 3, Reproductive Toxicity Category 1B, Skin Sensitizer Category 1, STOT - SE (Narcosis) Category 3, Acute Toxicity – Inhalation Category 3.	
	Classification drawn from HCIS and ECHA C&L Inventory.	

Label elements

Hazard pictograms





SIGNAL WORD	DANGER
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Hazard	statement	(s)

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360D	May damage the unborn child.
H317	May cause an allergic skin reaction
H336	May cause drowsiness or dizziness
H331	Toxic if inhaled
AUH019	May form explosive peroxides

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Precautionary statement(s) Prevention		
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves / eye protection / face protection.	
P284	Wear respiratory protection	
P261	Avoid breathing mist / vapours / spray.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

Precautionary statement(s) Response

P305+P351+P338+P337+P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice / attention.	
P302+P362+P352+P333+P313	IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice / attention.	
P304+P340+P311	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor.	
P308+P313	IF pregnant and exposed or concerned: Get medical advice / attention.	

Precautionary statement(s) Storage

P403+P405+P233 Store locked up, in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
111-76-2	30-<60	ethylene glycol monobutyl ether
872-50-4	10-<30	N-methyl-2-pyrrolidone
5989-27-5	10-<30	<u>d-limonene</u>
9016-45-9	<10	Nonyl phenol ethoxylates
67-63-0	<10	<u>Isopropyl alcohol</u>

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If pain persists or recurs seek medical attention.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation or rash.
Inhalation	If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness, i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Foam.
- ► Dry chemical powder.
- ► BCF (where regulations permit).
- ▶ Carbon dioxide.
- ▶ Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Advice for firefighters	
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	WARNING: In use may form flammable/ explosive vapour-air mixtures. Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit acrid smoke. Mists containing combustible materials may be explosive. On combustion, may emit toxic furnes of carbon monoxide (CO), carbon dioxide (CO2), nitrogen oxides (NOx) and other pyrolysis products typical of burning organic material. May emit corrosive furnes. WARNING: Long standing in contact with air and light may result in the formation of potentially explosive peroxides.
HAZCHEM	Not applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Environmental hazard - contain spillage. Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	Moderate environmental hazard - contain spillage. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

ecautions for safe handlin	<u>''</u>
	Product under certain conditions may form explosive peroxides when exposed to light and air.
	Unopened containers received from the supplier should be safe to store for 18 months. Opened containers should not be stored for more than 12 months. Avoid all personal contact, including inhalation.
	Wear protective clothing when risk of exposure occurs.
	Use in a well-ventilated area.
Safe handling	Prevent concentration in hollows and sumps.
Sare nandling	DO NOT enter confined spaces until atmosphere has been checked.
	Avoid smoking, naked lights or ignition sources.
	Avoid contact with incompatible materials.
	When handling, DO NOT eat, drink or smoke.
	Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
	DO NOT allow clothing wet with material to stay in contact with skin
	Store in original containers.
	Keep containers securely sealed.
	No smoking, naked lights or ignition sources.
Other information	Store in a cool, dry, well-ventilated area.
	Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
	Observe manufacturer's storage and handling recommendations contained within this SDS.

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Conditions for safe storage, including any incompatibilities

Suitable container	Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Certain of the ingredients may form unstable peroxides in storage. Avoid strong oxidising agents, strong acids and strong caustics.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	96.9 mg/m3 / 20 ppm	242 mg/m3 / 50 ppm	Not Available	Sk
Australia Exposure Standards	N-methyl-2-pyrrolidone	1-Methyl-2-pyrrolidone	103 mg/m3 / 25 ppm	309 mg/m3 / 75 ppm	Not Available	Sk
Australia Exposure Standards	isopropanol	Isopropyl alcohol	400 ppm / 983 mg/m3	1230 mg/m3 / 500 ppm	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB)	20 ppm	20 ppm	700 ppm
N-methyl-2-pyrrolidone	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	10 ppm	10 ppm	10 ppm
d-limonene	Limonene, d-	20 ppm	20 ppm	160 ppm
nonylphenol, ethoxylated	Glycols, polyethylene, mono(p-nonylphenol) ether;	9.9 mg/m3	110 mg/m3	300 mg/m3
isopropanol	Isopropyl alcohol	400 ppm	2000 ppm	12000 ppm

Ingredient	Original IDLH	Revised IDLH
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm
N-methyl-2-pyrrolidone	Not Available	Not Available
d-limonene	Not Available	Not Available
nonylphenol, ethoxylated	Not Available	Not Available
isopropanol	2000 ppm	Not Available

Exposure controls

JOSUI C COIILI OIS	
Appropriate engineering controls	Always maintain adequate ventilation. The use of a local exhaust ventilation system is recommended.
Personal protection	
Eye and face protection	Safety glasses with side shields OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. Lens should be removed in a clean environment only after workers have washed hands thoroughly.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. Gloves must only be worn on clean hands.
Body protection	See Other protection below
Other protection	Overalls. Respirator Barrier cream. Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear colourless liquid		
Physical state	Liquid	Relative density (Water = 1)	0.937
Odour	Citrus odour	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	The material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Ethylene glycol monobutyl ether penetrates the skin easily and will cause more harm on skin contact than through inhalation. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Еуе	This material can cause eye irritation and damage in some persons. Direct contact with the liquid may produce painful burning or stinging of the eyes and lids, watering and inflammation of the conjunctiva and temporary corneal clouding. Eye contact may cause tearing or blurring of vision. Vapour may cause mild eye irritation.
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Ample evidence exists, from results in experimentation that developmental disorders in unborn children are directly caused by human exposure to the material.

Toxicological effects of ingredients

d-limonene	Acute toxicity	Oral LD50 (rat) 4400 mg/kg Dermal LD50 (rabbit) >5000 mg/kg
	Skin corrosion/irritation	Causes skin irritation
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	May cause an allergic skin reaction
	Germ cell mutagenicity	No data available
	Carcinogenicity	No data available
	Reproductive toxicity	No data available
	STOT (single exposure)	No data available
	STOT (repeated exposure)	No data available
	Aspiration toxicity	May be fatal if swallowed and enters airways

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N-methyl-2-pyrrolidone	Acute toxicity	LD50 Oral - Rat - 3,914 mg/kg LD50 Dermal - Rabbit - 8,000 mg/kg LDLO Inhalation - Rat - 4 h - > 5100 ppm
, .,	Skin corrosion/irritation	Irritating to skin. May cause harm to the unborn child
	Eye damage/irritation	Irritating to eyes.
	Respiratory/skin sensitization	No Data Available
	Germ cell mutagenicity	No Data Available
	Carcinogenicity	No Data Available
	Reproductive toxicity	May cause harm to the unborn child
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	Bone marrow - Irregularities - Based on Human Evidence
	Aspiration toxicity	No Data Available
ethylene glycol monobutyl	Acute toxicity	Oral LD50 (guinea pig) 1414 mg/kg Dermal LD50 (guinea pig) >2000 mg/kg Inhalation LC0 >3.1 mg/l>641 ppm 1h
ether	Skin corrosion/irritation	Causes skin irritation.
	Eye damage/irritation	Causes serious eye irritation.
	Respiratory/skin sensitization	Not classified No study available.
	Germ cell mutagenicity	Not classified
	Carcinogenicity	Not classified
	Reproductive toxicity	Not classified
	STOT (single exposure)	High concentrations may cause central nervous system depression
	STOT (repeated exposure)	Based on repeated exposure toxicity values, not classified
	Aspiration toxicity	Based on physico-chemical values or lack of human evidence, not classified
nonylphenol ethoxylates	Acute toxicity	Oral LD50 (mouse) 4290 mg/kg
	Skin corrosion/irritation	moderate to severe irritation.
	Eye damage/irritation	moderate to severe irritation
	Respiratory/skin sensitization	Not sensitizing
	Germ cell mutagenicity	Not genotoxic
	Carcinogenicity	No Data Available
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
isopropanol	Acute toxicity	Oral LD50 (rat) 5045 – 5840 mg/kg Dermal LD50 (rabbit) 12800 mg/kg Inhalation LC50 (rat) 16000 ppm/8h
	Skin corrosion/irritation	May be irritating to skin
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	Not expected to be a sensitizer
	Germ cell mutagenicity	Not considered to be a mutagenic hazard
	Carcinogenicity	Not considered to be a carcinogenic hazard.
	Reproductive toxicity	Not considered to be toxic to reproduction
	STOT (single exposure)	May cause drowsiness or dizziness
	STOT (repeated exposure)	Not expected to cause toxicity to a specific organ
	Aspiration toxicity	Not expected to be an aspiration hazard

SECTION 12 ECOLOGICAL INFORMATION

	Endpoint	Duration (Hr.)	Species	Value
d-limonene	LC50	96	Fish	0.46mg/L
	EC50	48	Crustacea	0.307mg/L
	EC50	72	Algae or other aquatic plants	0.214mg/L
	NOEC	0	Algae or other aquatic plants	<0.05-1.5mg/L
N-methyl-2-pyrrolidone	LC50	96	Fish	>500mg/L
	EC50	48	Crustacea	ca.4897mg/L
	EC50	72	Algae or other aquatic plants	>500mg/L
	EC10	72	Algae or other aquatic plants	92.6mg/L
	NOEC	504	Crustacea	12.5mg/L
thylene glycol monobutyl	LC50	96	Fish	1-250mg/L
ether	EC50	48	Crustacea	>1-mg/L
	EC50	96	Algae or other aquatic plants	>1-mg/L
	NOEC	24	Crustacea	>1-mg/L
nonylphenol ethoxylates	NOEC	36.5	Fish	0.0001-mg/L
isopropanol	LC50	96	Fish	9-640mg/L
	EC50	48	Crustacea	12500mg/L
	EC50	72	Algae or other aquatic plants	>1000mg/L
	EC0	24	Crustacea	5-102mg/L
	NOEC	504	Crustacea	=30mg/L

Harmful to aquatic organisms. **DO NOT** discharge into sewer or waterways.

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Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)
N-methyl-2-pyrrolidone	LOW	LOW
d-limonene	HIGH	HIGH

Bio accumulative potential

Ingredient	Bioaccumulation
ethylene glycol monobutyl ether	LOW (BCF = 2.51)
N-methyl-2-pyrrolidone	LOW (BCF = 16)
d-limonene	HIGH (LogKOW = 4.8275)

Mobility in soil

Ingredient	Mobility
ethylene glycol monobutyl ether	HIGH (KOC = 1)
N-methyl-2-pyrrolidone	LOW (KOC = 20.94)
d-limonene	LOW (KOC = 1324)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal

Recycle containers whenever possible.

Product residues and containers should be disposed of in accordance with local government regulations.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

D-LIMONENE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

N-METHYL-2-PYRROLIDONE (872-50-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC) Chemical Footprint Project - Chemicals of High Concern List

ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents classified by AIRC monographs

NONYLPHENOL, ETHOXYLATED IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	26/02/2021
Initial Date	08/12/2016

SDS Version Summary

2.1 26/02/2021 Sections 2, 3, 11, 12, 15, 16 have been updated or corrected	Version	Issue Date	Sections Updated
	2.1	26/02/2021	Sections 2, 3, 11, 12, 15, 16 have been updated or corrected

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Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

PC-TWA; Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit International Agency for Research on Cancer IARC:

ACGIH: American Conference of Government Industrial Hygienists

Short Term Exposure Limit STEL:

TEEL: Temporary Emergency Exposure Limit

Immediate Danger to Life or Health Concentrations IDLH:

OSF: Odour Safety Factor NOAEL: No Observed Effects Level Threshold Limit Value TLV: Limit Of Detection LOD: Odour Threshold Value OTV: BCF: Bio Concentration Factors BEI: Biological Exposure Index

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End of SDS

SAFETY DATA SHEET



CITRUS GEL

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: **AP486** Version No: **2.2** Issue date: **19/08/2021**

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	CITRUS GEL
Product code	AP486
Pack sizes	500ml & 5L

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Solvent gel for grease, paint and ink spot removal

Details of the manufacturer/importer

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Website	www.actichem.com.au
Email	info@actichem.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 11 26
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	5
GHS Classification	Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Skin Sensitizer Category 1B. Reproductive Toxicity Category 1B
	Classification drawn from HCIS and ECHA C&L Inventory.

Label elements

Hazard pictogram



SIGNAL WORD	DANGER

Hazard statement(s)

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H360D	May damage the unborn child.

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Precautionary statement(s) Prevention

P201	Obtain special instructions before use	
P202	Do not handle before all safety instructions have been read and understood	
P281	Use personal protective equipment as required.	
P280	Wear protective gloves.	
P261	Avoid breathing fumes or vapours.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

Precautionary statement(s) Response

P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.	
P302+P362+P352+P333+P313	IF ON SKIN: Take off contaminated clothing. Wash with plenty of water and soap. If skin irritation or rash occurs, get medical advice / attention.	
P363	Wash contaminated clothing before reuse.	
P304+P340+P312	IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	

Precautionary statement(s) Storage

P403+P405+P233 Store locked up, in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

P501 Dispose of contents / container in accordance with local government regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
5989-27-5	10-<30	<u>d-limonene</u>
64742-48-9	30-60	naphtha petroleum, isoparaffin, hydrotreated
872-50-4	<10	N-methyl-2-pyrrolidone

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.		
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.		
Inhalation	If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. If patient is unwell transport to hospital, or doctor, without delay.		
Ingestion	If swallowed do NOT induce vomiting. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol		

Indication of any immediate medical attention and special treatment needed

For acute or short-term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g., cyanosis, tachypnea, intercostal retraction, and obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardio selective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second ${\tt c}\,{\tt h}\,{\tt o}\,{\tt i}\,{\tt c}\,{\tt e}$.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

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SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media

There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area

Special hazards arising from the substrate or mixture

Fire incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting

Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

Equipment should be thoroughly decontaminated after use

Fire/Explosion Hazard

WARNING: In use may form flammable/ explosive vapour-air mixtures, carbon dioxide (CO2) and other pyrolysis products typical of burning organic material May emit poisonous fumes.

May emit corrosive fumes.

HAZCHEM

Not applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills

Clean up all spills immediately.

Avoid contact with skin and eves Wear impervious gloves and safety goggles.

Trowel up/scrape up.

Place spilled material in clean, dry, sealed container.

Flush spill area with water

IF PREGNANT take special care not to breath vapours or incur skin contact. (See PPE in Section 8)

Major Spills

Control personal contact with the substance, by using protective equipment as required.

Prevent spillage from entering drains or water ways

Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations.

Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.

IF PREGNANT take special care not to breath vapours or incur skin contact. (See PPE in Section 8)

PPE

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling

Other information

Do not eat, drink or smoke while handling the product.

Containers, even those that have been emptied, may contain explosive vapours.

Do NOT cut, drill, grind, weld or perform similar operations near containers.

Keep containers tightly closed to prevent the production of explosive peroxides. IF PREGNANT take special care not to breath vapours or incur skin contact. (See PPE in Section 8)

Store in original containers.

Keep containers securely sealed.

Store in a cool, dry, well-ventilated area.

Store away from incompatible materials and foodstuff containers.

Protect containers against physical damage and check regularly for leaks.

Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container

Polyethylene or polypropylene container.

Packing as recommended by manufacturer Check all containers are clearly labelled and free from leaks.

Storage incompatibility

There is a small danger of the product forming unstable peroxides in storage if exposed to air for long periods.

Is incompatible with strong acids, including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride

Avoid reaction with oxidising agents

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	N-methyl-2-pyrrolidone	1-Methyl-2-pyrrolidone	103 mg/m3 / 25 ppm	309 mg/m3 / 75 ppm	Not Available	Sk

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
d-limonene	Limonene, d-	20 ppm	20 ppm	160 ppm
naphtha petroleum, isoparaffin, hydrotreated	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	171 ppm	171 ppm	570 ppm
N-methyl-2-pyrrolidone	Methyl 2-pyrrolidinone, 1-; (N-Methylpyrrolidone)	10 ppm	10 ppm	10 ppm

Ingredient	Original IDLH	Revised IDLH
No data is available for any of		
the ingredients.		

Exposure controls

CAUTION: This product contains an ingredient which may damage the unborn child. It is, therefore, of all importance that pregnant women take every precaution to avoid contact with the product and its vapours.

Appropriate engineering controls	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended
Personal protection	
Eye and face protection	Eye protection is unlikely to be needed due to the gelled nature of the product.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. Neoprene rubber The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoidall possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and. destroyed
Body protection	See Other protection below
Other protection	P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit. IF PREGNANT – a suitable respirator should be used to avoid breathing in vapours. (See note below)
Thermal hazards	Not Available

Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Smooth white gel				
Physical state	Gel	Relative density (Water = 1)	0.891		
Odour	Limonene	Molecular weight (g/mol)	Not Available		
Odour threshold	Not Available	Auto-ignition temperature	Not Available		
pH (as supplied)	Not Applicable	Decomposition	Not Available		
Upper Explosive Limit (%)	Not Available	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	Not Available	Partition coefficient n- octanol / water	Not Available		
Flash point (°C)	Not Applicable	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	Not flammable	Oxidising properties	Not Available		
Melting point / freezing point (°C)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available		

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Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

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Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. IF PREGNANT, inhaled vapours may cause damage to the unborn child.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. IF PREGNANT and the product is ingested it may cause damage to the unborn child
Skin Contact	This material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. This material may cause an allergic dermatitis in some susceptible persons.
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

Toxicological effects of ingredients

naphtha petroleum,	Acute toxicity	Oral LD50 (rat) >5000 mg/kg
isoparaffin, hydrotreated	Skin corrosion/irritation	Mildly irritating to skin with prolonged exposure (Based on test data for structurally similar materials)
	Eye damage/irritation	May cause mild, short-lasting discomfort to eyes (Based on test data for structurally similar materials)
	Respiratory/skin sensitization	Not expected to be a respiratory or skin sensitiser. (Based on test data for structurally similar materials)
	Germ cell mutagenicity	Not expected to be a germ cell mutagen (Based on test data for structurally similar materials)
	Carcinogenicity	Not expected to cause cancer (Based on test data for structurally similar materials)
	Reproductive toxicity	Not expected to be a reproductive toxicant (Based on test data for structurally similar materials)
	STOT (single exposure)	Not expected to cause organ damage from a single exposure. Negligible hazard at ambient/normal handling temperatures Vapour/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects including death.
	STOT (repeated exposure)	Not expected to cause organ damage from prolonged or repeated exposure (Based on test data for structurally similar materials). Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis
	Aspiration toxicity	May be fatal if swallowed and enters airways (Based on physicochemical properties of the material). Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.
d-limonene	Acute toxicity	Oral LD50 (rat) 4400 mg/kg
	Skin corrosion/irritation	Causes skin irritation
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	May cause an allergic skin reaction
	Germ cell mutagenicity	No data available
	Carcinogenicity	No data available
	Reproductive toxicity	No data available
	STOT (single exposure)	No data available
	STOT (repeated exposure)	No data available
	Aspiration toxicity	May be fatal if swallowed and enters airways
N-methyl-2-pyrrolidone	Acute toxicity	LD50 Oral - Rat - 3,914 mg/kg LD50 Dermal - Rabbit - 8,000 mg/kg LDLO Inhalation - Rat - 4 h - > 5100 ppm
	Skin corrosion/irritation	Irritating to skin. May cause harm to the unborn child
	Eye damage/irritation	Irritating to eyes.
	Respiratory/skin sensitization	No Data Available
	Germ cell mutagenicity	No Data Available
	Carcinogenicity	No Data Available
	Reproductive toxicity	May cause harm to the unborn child
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	Bone marrow - Irregularities - Based on Human Evidence
	Aspiration toxicity	No Data Available

Issue Date: 19/08/2021

Product Code: AP486 Version No: 2.2

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	Endpoint	Duration (Hr.)	Species	Value
d-limonene	LC50	96	Fish	0.46mg/L
	EC50	48	Crustacea	0.307mg/L
	EC50	72	Algae or other aquatic plants	0.214mg/L
	NOEC	0	Algae or other aquatic plants	<0.05-1.5mg/L
naphtha petroleum,	LC50	96	Fish	4.1mg/L
isoparaffin, hydrotreated	EC50	48	Crustacea	4.5mg/L
	EC50	72	Algae or other aquatic plants	3.1mg/L
	NOEL	72	Algae or other aquatic plants	0.1mg/L
N-methyl-2-pyrrolidone	LC50	96	Fish	>500mg/L
	EC50	48	Crustacea	ca.4897mg/L
	EC50	72	Algae or other aquatic plants	>500mg/L
	EC10	72	Algae or other aquatic plants	92.6mg/L
	NOEC	504	Crustacea	12.5mg/L

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high watermark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
d-limonene	HIGH	HIGH
N-methyl-2-pyrrolidone	LOW	LOW

Bio accumulative potential

Ingredient	Bioaccumulation
d-limonene	HIGH (LogKOW = 4.8275)
N-methyl-2-pyrrolidone	LOW (BCF = 16)

Mobility in soil

Ingredient	Mobility
d-limonene	LOW (KOC = 1324)
N-methyl-2-pyrrolidone	LOW (KOC = 20.94)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal

Recycle containers whenever possible.

Product residues and containers should be disposed of in accordance with local government regulations

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant



HAZCHEM

Not Applicable

Land transport (Not Applicable): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

D-LIMONENE (5989-27-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

NAPHTHA PETROLEUM, ISOPARAFFIN, HYDROTREATED (64742-48-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Issue Date: 19/08/2021

Product Code: AP486 Version No: 2.2

N-METHYL-2-PYRROLIDONE (872-50-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemical Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
Australian Inventory of Industrial Chemicals (AIIC) Chemical Footprint Project - Chemicals of High Concern List

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	19/08/2021
Initial Date	08/12/2016

SDS Version Summary

Version	Issue Date	Sections Updated
2.1	24/12/2020	Sections 2, 11, 12, 15, 16 have been updated or corrected
2.2	19/08/2021	Section 2

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer

ACGIH: American Conference of Government Industrial Hygienists

STEL:

TEEL: Temporary Emergency Exposure Limit Immediate Danger to Life or Health Concentrations

IDLH: Odour Safety Factor NOAEL: No Observed Effects Level TLV: Threshold Limit Value LOD Limit Of Detection OTV: Odour Threshold Value BCF: Bio Concentration Factors Biological Exposure Index BEI:

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End of SDS

SAFETY DATA SHEET



ACTICHEM CTR

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: AP490 Version No: 2.1 Issue date: 09/04/2021

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	ACTICHEM CTR
Product code	AP490
Pack sizes	500ml & 5L

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Coffee and tannin stain remover

Details of the supplier of the safety data sheet

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD	
Address	11 Gamma Close, Beresfield 2322 NSW Australia	
Telephone	(02) 4966 5516	
Website	www.actichem.com.au	
Email	info@actichem.com.au	

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

 ${\sf HAZARDOUS\ CHEMICAL.\ NON-DANGEROUS\ GOODS.\ According\ to\ the\ WHS\ Regulations\ and\ the\ ADG\ Code.}$

Poisons Schedule	Not Applicable	
GHS Classification	Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1	
	Classification drawn from HCIS and ECHA C&L Inventory.	

Label elements

GHS label elements



SIGNAL WORD D

DANGER

Hazard statement(s)

H315	Causes skin irritation
H318	Causes serious eye damage

Precautionary statement(s) Prevention

P280	Wear protective gloves and eye protection.
P264	Wash hands thoroughly after handling.

Issue Date: 09/04/2021 Product Code: AP490 Version No: 2.1

Precautionary statement(s) Response

IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to P305+P310+P351+P338 do. Continue rinsing. P302+P362+P352+P332+P313 IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation occurs, get medical advice / attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7681-57-4	<10	sodium metabisulfite
79-14-1	<10	glycolic acid
111-76-2	<10	ethylene glycol monobutyl ether
67-63-0	<10	isopropanol
2809-21-4	<10	hydroxyethanediphosphonic acid

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Obtain medical advice / attention without delay Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If necessary, transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing	media
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The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas. Extinguishing media

Special hazards arising from the substrate or mixture

Fire incompatibility	None known
Advice for firefighters	
Fire fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. Slight hazard when exposed to heat, flame and oxidisers.
Fire/Explosion Hazard	Non-combustible. Not considered to be a significant fire risk. Expansion or decomposition on heating may lead to violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO), carbon dioxide (CO2) and other pyrolysis products typical of burning organic material May emit corrosive fumes.

ACTICHEM CTR Issue Date: 09/04/2021 Product Code: AP490 Version No: 2.1

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
PPE	Personal Protective Equipment advice is contained in Section 8 of the SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Other information

Safe handling

Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, **DO NOT** eat, drink or smoke. Keep containers securely sealed when not in use.

Avoid physical damage to containers. Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities

Suitable container	Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	sodium metabisulfite	Sodium Metabisulphite	5mg/m3	Not available	Not Available	Not Available
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	96.9 mg/m3 / 20 ppm	242 mg/m3 / 50 ppm	Not Available	Sk
Australia Exposure Standards	isopropanol	Isopropyl alcohol	983 mg/m3 / 400 ppm	1230 mg/m3 / 500 ppm	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium metabisulfite	Sodium Metabisulphite	5 mg/m3	5 mg/m3	220 mg/m3
Glycolic acid	Glycolic acid; (Hydroxyacetic acid)	4.7 mg/m3	51 mg/m3	390 mg/m3
ethylene glycol monobutyl ether	2-Butoxyethanol	20 ppm	20 ppm	700 ppm
isopropanol	Isopropyl alcohol	400 ppm	400 ppm	12000 ppm
hydroxyethanediphosphonic acid	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	7.2 mg/m3	79 mg/m3	480 mg/m3

Ingredient	Original IDLH	Revised IDLH
sodium metabisulfite	Not Available	Not Available
Glycolic acid	Not Available	Not Available
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm
isopropanol	12000 ppm	2000 [LEL] ppm
hydroxyethanediphosphonic acid	Not Available	Not Available

Product Code: AP490 Issue Date: 09/04/2021 Version No: 2.1

Exposure controls	
Appropriate engineering controls	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended.
Personal protection	
Eye and face protection	Safety glasses with side shields OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation Lens should be removed in a clean environment only after workers have washed hands thoroughly.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC.
Body protection	See Other protection below
Other protection	Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information	on basic	physical	and chemical	properties

Appearance	Clear colourless liquid		
Physical state	Liquid	Relative density (Water = 1)	1.0
Odour	Pungent odour	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	2.7	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

Page **5** of **7** ACTICHEM CTR

Product Code: AP490 Issue Date: 09/04/2021 Version No: 2.1

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives). Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Еуе	If applied to the eyes, this material causes severe eye damage. Isopropanol vapour may cause mild eye irritation. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision.
Chronic	No applicable data.

Toxicological effects of ingredients

xicological effects of ingre		
sodium metabisulfite	Acute toxicity	Oral LD50 (rat) >1540 mg/kg
	Skin corrosion/irritation	Not classified. Based on available data, the classification criteria are not met
	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	Not classified. Based on available data, the classification criteria are not met
	Germ cell mutagenicity	Not classified. Based on available data, the classification criteria are not met
	Carcinogenicity	Not classified. Based on available data, the classification criteria are not met
	Reproductive toxicity	Not classified. Based on available data, the classification criteria are not met
	STOT (single exposure)	Not classified. Based on available data, the classification criteria are not met
	STOT (repeated exposure)	Not classified. Based on available data, the classification criteria are not met
	Aspiration toxicity	Not classified. Based on available data, the classification criteria are not met
glycolic acid	Acute toxicity	Oral LD50 (rat) 2040 mg/kg Inhalation LC50 (rat) 7100 mg/m3 4h
	Skin corrosion/irritation	Severe skin irritation
	Eye damage/irritation	Causes severe burns. Risk of serious eye damage. Will affect Eyes with Corrosion, Ulceration, May cause irreversible eye damage
	Respiratory/skin sensitization	No data available
	Germ cell mutagenicity	No adverse effects observed
	Carcinogenicity	Not carcinogenic
	Reproductive toxicity	Not toxic to reproduction
	STOT (single exposure)	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract
	STOT (repeated exposure)	No data available
	Aspiration toxicity	No data available
ethylene glycol monobutyl	Acute toxicity	Oral LD50 (guinea pig) 1414 mg/kg Dermal LD50 (guinea pig) >2000 mg/kg Inhalation LC0 >3.1 mg/l>641 ppm 1h
ether	Skin corrosion/irritation	Causes skin irritation.
etilei	Eye damage/irritation	Causes serious eye irritation.
	Respiratory/skin sensitization	Not classified No study available.
	Germ cell mutagenicity	Not classified
	Carcinogenicity	Not classified
	Reproductive toxicity	Not classified
	STOT (single exposure)	High concentrations may cause central nervous system depression
	STOT (repeated exposure)	Based on repeated exposure toxicity values, not classified
	Aspiration toxicity	Based on physico-chemical values or lack of human evidence. Not classified
isopropanol	Acute toxicity	Oral LD50 (rat) 5045 – 5840 mg/kg Dermal LD50 (rabbit) 12800 mg/kg Inhalation LC50 (rat) 16000 ppm/8h
	Skin corrosion/irritation	May be irritating to skin
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	Not expected to be a sensitizer
	Germ cell mutagenicity	Not considered to be a mutagenic hazard
	Carcinogenicity	Not considered to be a carcinogenic hazard.
	Reproductive toxicity	Not considered to be toxic to reproduction
	STOT (single exposure)	May cause drowsiness or dizziness
	STOT (repeated exposure)	Not expected to cause toxicity to a specific organ
	Aspiration toxicity	Not expected to be an aspiration hazard
hydroxyethane-	Acute toxicity	Oral LD50 (Rats): 1,440 - 3,550 mg/kg - (Mice): 1,100 mg/kg
diphosphonic acid	Skin corrosion/irritation	Causes severe skin burns
	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	No information available
	Germ cell mutagenicity	Not considered to be genotoxic
l l	Caraina anniaite.	No information available
	Carcinogenicity	
	Reproductive toxicity	Not considered to cause reproductive or developmental toxicity
		Not considered to cause reproductive or developmental toxicity Inhalation may cause burning of the nose and throat, nausea, vomiting and diarrhoea
	Reproductive toxicity	

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	Endpoint	Duration (Hr.)	Species	Value	
sodium metabisulfite	LC50	96	Fish	=21mg/L	
	EC50	48	Crustacea	89mg/L	
	EC50	96	Algae or other aquatic plants	=40mg/L	
	EC20	96	Algae or other aquatic plants	=20mg/L	
	NOEC	504	Crustacea	>10mg/	

Product Code: **AP490** Version No: **2.1**

glycolic acid	LC50	96	Fish	>5-mg/L
	EC50	48	Crustacea	141mg/L
	EC50	72	Algae or other aquatic plants	21.6mg/L
	NOEC	72	Algae or other aquatic plants	10mg/L
ethylene glycol monobutyl	LC50	96	Fish	1-250mg/L
ether	EC50	48	Crustacea	>1-mg/L
	EC50	96	Algae or other aquatic plants	>1-mg/L
	NOEC	24	Crustacea	>1-mg/L
isopropanol	LC50	96	Fish	9-640mg/L
	EC50	48	Crustacea	12500mg/L
	EC50	72	Algae or other aquatic plants	>1000mg/L
	EC0	24	Crustacea	5-102mg/L
	NOEC	504	Crustacea	=30mg/L
nydroxyethanediphosphonic	LC50	96	Fish	195mg/L
acid	EC50	48	Crustacea	409mg/L
	EC50	96	Algae or other aquatic plants	3mg/L
	EC0	24	Crustacea	=39.6mg/L
	NOEC	504	Crustacea	0.1mg/L

The product is not considered to be ecotoxic. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
glycolic acid	LOW	LOW
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)

Bio accumulative potential

Ingredient	Bioaccumulation
glycolic acid	LOW (LogKOW = -1.11)
ethylene glycol monobutyl ether	LOW (BCH = 2.51)
isopropanol	LOW (LogKOW = -0.05)

Mobility in soil

Ingredient	Mobility
glycolic acid	HIGH (KOC = 1)
ethylene glycol monobutyl ether	HIGH (KOC = 1))
isopropanol	HIGH (KOC = 1.06)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal Prod

Recycle containers whenever possible.

Product residues and containers should be disposed of in accordance with local government regulations

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Product Code: AP490 Issue Date: 09/04/2021 Version No: 2.1

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

SODIUM METABISULFITE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

GLYCOLIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents classified by AIRC monographs

ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

HYDROXYETHANEDIPHOSPHONIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4 Australian Inventory of Industrial Chemicals (AIIC)

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	09/04/2021
Initial Date	08/12/2016

SDS Version Summary

Version	Issue Date	Sections Updated
2.1	09/04/2021	Sections 2, 3, 11, 12, 15, 16 have been updated or corrected

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

PC-TWA; Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer ACGIH:

American Conference of Government Industrial Hygienists STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

IDLH: Immediate Danger to Life or Health Concentrations

OSF: Odour Safety Factor NOAEL: No Observed Effects Level Threshold Limit Value TLV LOD: Limit Of Detection OTV: Odour Threshold Value BCF: **Bio Concentration Factors** Biological Exposure Index BEI:

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End of SDS

SAFETY DATA SHEET



PET & FLOOD

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: AP491 Version No: 2.1 Issue date: 09/04/2021

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	PET & FLOOD
Product code	AP491
Pack sizes	500ml; 5L & 20L

Relevant identified uses of the substance or mixture and uses advised against

Details of the supplier of the safety data sheet

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD	
Address	11 Gamma Close, Beresfield 2322 NSW Australia	
Telephone	(02) 4966 5516 www.actichem.com.au info@actichem.com.au	
Website		
Email		

Emergency telephone number

Association / Organisation	Poisons Information Centre	
Emergency telephone numbers	13 1126	
Other emergency telephone numbers	Not Available	

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable	
GHS Classification	Skin Corrosion/Irritation Category 2, Eye Irritation Category 1	
	Classification drawn from HCIS and ECHA C&L Inventory.	

Label elements

Hazard pictogram



SIGNAL WORD	DANGE

SIGNAL WORD

Hazard statement(s)		
H315	Causes skin irritation	
H318	Causes serious eye irritation	

Precautionary statement(s) Prevention

Treadulationary Statement(S) Trevention	
P280	Wear protective gloves and eye protection.
P264	Wash exposed skin thoroughly after handling.

Precautionary statement(s) Response

P305+P310+P351+P338	IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P362+P352+P332+P313	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice / attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

Product Code: AP491 Version No: 2.1

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
77-92-9	<10	<u>citric acid</u>
79-14-1	<10	glycolic acid
9016-45-9	<10	nonylphenol, ethoxylated
67-63-0	<10	isopropanol
2809-21-4	<10	hydroxyethanediphosphonic acid

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water for 10-15 minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media

Special hazards arising from the substrate or mixture.

Fire incompatibilities	None known
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Advice for firefighters

Fire fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	Non-combustible. Not considered to be a significant fire risk. Expansion or decomposition on heating may lead to violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO), carbon dioxide (CO2) and other pyrolysis products typical of burning organic material May emit corrosive fumes.
HAZCHEM	Not applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

· · · · · · · · · · · · · · · · · · ·	
Minor Spills	Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
PPE	Personal Protective Equipment advice is contained in Section 8 of the SDS

Product Code: **AP491**Version No: **2.1**

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers.
Other information	Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities

Suitable container	Store only in original container
Storage incompatibility	Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air. Avoid strong bases. Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	isopropanol	Isopropyl alcohol	983 mg/m3 / 400 ppm	1230 mg/m3 / 500 ppm	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Citric acid	Citric acid	0.37 mg/m3	4 mg/m3	590 mg/m3
Glycolic acid	Glycolic acid; (Hydroxyacetic acid)	4.7 mg/m3	51 mg/m3	390 mg/m3
nonylphenol, ethoxylated	Ethoxylated nonylphenol; (Nonyl phenyl polyethylene glycol ether)	9.9 mg/m3	110 mg/m3	300 mg/m3
isopropanol	Isopropyl alcohol	400 ppm	400 ppm	12000 ppm
hydroxyethanediphosphonic acid	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	7.2 mg/m3	79 mg/m3	480 mg/m3

Ingredient	Original IDLH	Revised IDLH
Citric acid	Not Available	Not Available
Glycolic acid	Not Available	Not Available
nonylphenol, ethoxylated	Not Available	Not Available
isopropanol	12000 ppm	2000 [LEL] ppm
hydroxyethanediphosphonic acid	Not Available	Not Available

Exposure controls

A	Materials and another the filters by an extension of the first state o			
Appropriate engineering	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate.			
controls	If ventilation is poor, then the use of a local exhaust ventilation system is recommended.			
Personal protection				
Eye and face protection	Safety glasses with side shields OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation Lens should be removed in a clean environment only after workers have washed hands thoroughly.			
Skin protection	See Hand protection below			
Hands/feet protection	Wear chemical protective gloves. Neoprene is recommended for this application			
Body protection	See Other protection below			
Other protection	Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.			
Thermal hazards	Not Available			

Product Code: AP491 Version No: 2.1

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear yellow liquid		
Physical state	Liquid	Relative density (Water = 1)	1.0
Odour	Lemon	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	2.5 – 3.0	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives). Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Еуе	If applied to the eyes, this material causes severe eye damage. Isopropanol vapour may cause mild eye irritation. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision
Chronic	No applicable data.

Toxicological effects of ingredients

· · · · · · · · · · · · · · · · · · ·		
citric acid	Acute toxicity	Oral LD50 (rat) 3000 – 12000 mg/kg
	Skin corrosion/irritation	May cause skin irritation, redness
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	No evidence of sensitisation
	Germ cell mutagenicity	No evidence of mutagenicity.
	Carcinogenicity	No evidence of carcinogenicity
	Reproductive toxicity	No evidence of reproductive or developmental toxicity
	STOT (single exposure)	May cause respiratory irritation; Inhalation of citric acid aerosols may induce coughing and bronchoconstriction.
	STOT (repeated exposure)	Not considered to cause serious damage to health from repeated exposure
	Aspiration toxicity	No information available

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glycolic acid	Acute toxicity	Oral LD50 (rat) 2040 mg/kg Inhalation LC50 (rat) 7100 mg/m3 4h	
	Skin corrosion/irritation	Severe skin irritation	
	Eye damage/irritation	Causes severe burns. Risk of serious eye damage. Will affect Eyes with Corrosion, Ulceration, May cause irreversible eye damage	
	Respiratory/skin sensitization	No data available	
	Germ cell mutagenicity	No adverse effects observed	
	Carcinogenicity	Not carcinogenic	
	Reproductive toxicity	Not toxic to reproduction	
	STOT (single exposure)	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract	
	STOT (repeated exposure)	No data available	
	Aspiration toxicity	No data available	
nonylphenol ethoxylated	Acute toxicity	Oral LD50 (mouse) 4290 mg/kg	
	Skin corrosion/irritation	moderate to severe irritation.	
	Eye damage/irritation	moderate to severe irritation	
	Respiratory/skin sensitization	Not sensitizing	
	Germ cell mutagenicity	Not genotoxic	
	Carcinogenicity	No Data Available	
	Reproductive toxicity	No Data Available	
	STOT (single exposure)	No Data Available	
	STOT (repeated exposure)	No Data Available	
	Aspiration toxicity	No Data Available	
isopropanol	Acute toxicity	Oral LD50 (rat) 5045 – 5840 mg/kg Dermal LD50 (rabbit) 12800 mg/kg Inhalation LC50 (rat) 16000 ppm/8h	
icopi opalici	Skin corrosion/irritation	May be irritating to skin	
	Eye damage/irritation	Causes serious eye irritation	
	Respiratory/skin sensitization	Not expected to be a sensitizer	
	Germ cell mutagenicity	Not considered to be a mutagenic hazard	
	Carcinogenicity	Not considered to be a carcinogenic hazard.	
	Reproductive toxicity	Not considered to be toxic to reproduction	
	STOT (single exposure)	May cause drowsiness or dizziness	
	STOT (repeated exposure)	Not expected to cause toxicity to a specific organ	
	Aspiration toxicity	Not expected to be an aspiration hazard	
hydroxyethane-	Acute toxicity	Oral LD50 (Rats): 1,440 - 3,550 mg/kg - (Mice): 1,100 mg/kg	
diphosphonic acid	Skin corrosion/irritation	Causes severe skin burns	
dipriosprionic acid	Eye damage/irritation	Causes serious eye damage	
	Respiratory/skin sensitization	No information available	
	Germ cell mutagenicity	Not considered to be genotoxic No information available	
	Carcinogenicity Penroductive toxicity		
	Reproductive toxicity	Not considered to cause reproductive or developmental toxicity	
	STOT (single exposure)	Inhalation may cause burning of the nose and throat, nausea, vomiting and diarrhoea No information available	
	STOT (repeated exposure)		
	Aspiration toxicity	No information available	

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Oxicity	Endpoint	Duration (Hr.)	Species	Value
citric acid	LC50	48	Fish	440 mg/L
	EC50	24	Daphnia	1535 mg/L
	EC50	192	algae	425 mg/L
glycolic acid	LC50	96	Fish	>5-mg/L
	EC50	48	Crustacea	141mg/L
	EC50	72	Algae or other aquatic plants	21.6mg/L
	NOEC	72	Algae or other aquatic plants	10mg/L
nonylphenol ethoxylated	NOEC	36.5	Fish	0.0001-mg/L
isopropanol	LC50	96	Fish	9-640mg/L
	EC50	48	Crustacea	12500mg/L
	EC50	72	Algae or other aquatic plants	>1000mg/L
	EC0	24	Crustacea	5-102mg/L
	NOEC	504	Crustacea	=30mg/L
hydroxyethanediphosphonic	LC50	96	Fish	195mg/L
acid	EC50	48	Crustacea	409mg/L
	EC50	96	Algae or other aquatic plants	3mg/L
	EC0	24	Crustacea	=39.6mg/L
	NOEC	504	Crustacea	0.1mg/L

Toxic to aquatic organisms. Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. Wastes resulting from use of the product must be disposed of on site or at approved waste sites.. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Glycolic acid	LOW	LOW
citric acid	LOW	LOW
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
nonylphenol, ethoxylated	LOW	LOW

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Ingredient	Bioaccumulation
Glycolic acid	LOW (LogKOW = -1.11)
citric acid	LOW (LogKOW = -1.64)
isopropanol	LOW (LogKOW = -0.05)
nonylphenol, ethoxylated	LOW (LogKOW = 0.05)

Mobility in soil

Ingredient	Mobility
Glycolic acid	HIGH (KOC = 1)
citric acid	LOW (KOC = 10))
isopropanol	HIGH (KOC = 1.06)
nonylphenol, ethoxylated	LOW (KOC = 940)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal

Recycle containers whenever possible.

Product residues and containers should be disposed of in accordance with local government regulations

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

CITRIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

GLYCOLIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

NONYLPHENOL, ETHOXYLATED IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

HYDROXYETHANEDIPHOSPHONIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australian Inventory of Industrial Chemicals (AIIC)

SECTION 16 OTHER INFORMATION

Revision Schedule

Newson outcome	
Revision Date	09/04/2021
Initial Date	08/12/2016

SDS Version Summary

Version	Issue Date	Sections Updated
2.1	09/04/2021	Sections 2, 3, 11, 12, 15, 16 have been updated or corrected

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Issue Date: 09/04/2021

Product Code: AP491 Version No: 2.1

Definitions and abbreviations

PC-TWA; Permissible Concentration-Time Weighted Average Permissible Concentration-Short Term Exposure Limit PC-STEL: IARC: International Agency for Research on Cancer

ACGIH: American Conference of Government Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

Immediate Danger to Life or Health Concentrations IDLH:

Odour Safety Factor OSF: NOAEL: No Observed Effects Level Threshold Limit Value TLV: Limit Of Detection LOD: Odour Threshold Value OTV: BCF: Bio Concentration Factors Biological Exposure Index BEI:

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End of SDS

SAFETY DATA SHEET



RUST REMOVER

APPLIED PRODUCTS AUSTRALIA PTY LTD

Catalogue number: **AP492** Version No: **3.1** Issue date: **28/12/2020**

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier Product name RUST REMOVER Product code AP492 Pack sizes 500ml and 5L

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses High performance rust spot remover

Details of the manufacturer/importer

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Website	www.actichem.com.au
Email	info@actichem.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

 ${\sf HAZARDOUS\ CHEMICAL.\ NON-DANGEROUS\ GOODS.\ According\ to\ the\ Model\ WHS\ Regulations\ and\ the\ ADG\ Code.}$

Poisons Schedule	5
GHS Classification	Serious Eye Damage Category 1, Skin Corrosion/Irritation Category 1B, Acute Toxicity (Inhalation) Category 4, Acute Toxicity (Oral) Category 4
	Classification drawn from HCIS and ECHA C&L Inventory.

Label elements

Hazard pictograms





Hazard statement(s)

H314	Causes severe skin burns and eye damage
H302	Harmful if swallowed
H332	Harmful if inhaled.
AUH071	Corrosive to the respiratory tract

Precautionary statement(s) Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P260	Do not breathe fumes / vapours / spray
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash exposed skin thoroughly after handling

Issue Date: 28/12/2020

Product Code: AP161 Version No: 3.1

Precautio	nary sta	tement(s	s) Respo	nse
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P301+P310+P330+P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.	
P303+P310+P363+P361+P353	IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor. Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower.	
P305+P310+P351+P338	IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P304+P310+P340	IF INHALED: Immediately call a POISON CENTER or doctor. Remove person to fresh air and keep in a position comfortable for breathing.	

Precautionary statement(s) Storage

P405 Store locked up

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7664-38-2	<10	phosphoric acid
1341-49-7	<1	ammonium bifluoride
144-62-7	<10	<u>oxalic acid</u>
111-76-2	<10	ethylene glycol monobutyl ether
2235-54-3	<10	ammonium lauryl sulfate
2809-21-4	<10	hydroxyethanediphosphonic acid

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Continue rinsing for 20 minutes or until told to stop by a POISON CENTRE or doctor. Seek medical advice / attention.
Inhalation	If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay.

Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

	Foam.
	Dry chemical powder.
Extinguishing media	BCF (where regulations permit).
	Carbon dioxide.
	Water spray or fog

Special hazards arising from the substrate or mixture

Fire incompatibility

None known

RUST REMOVER Product Code: AP161 Issue Date: 28/12/2020 Version No: 3.1

Decomposition may produce toxic fumes of phosphorus oxides (POx).

Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. Fire Fighting DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. Non-combustible Not considered to be a significant fire risk. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Fire/Explosion Hazard Heating may cause expansion or decomposition leading to violent rupture of containers May emit corrosive, poisonous fumes. May emit acrid smoke.

HAZCHEM SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

	Clean up all spills immediately. Avoid contact with skin and eyes.
Minor Spills	Wipe up.
	Place in a suitable, labelled container for waste disposal.
	Wear protective clothing, gloves and eye protection
	Prevent, by any means available, spillage from entering drains or water course.
Major Spills	Stop leak if safe to do so.
	Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations.
	Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
PPE	Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Safe handling

Precautions for safe handling

DO NOT allow clothing wet with material to stay in contact with skin. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers.

WARNING: To avoid violent reaction, ALWAYS add material to water and NEVER water to material.

Other information

Conditions for safe storage, including any incompatibilities

Suitable container	DO NOT use glass, aluminium or galvanised containers Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.	
Storage incompatibility	prage incompatibility Avoid storing with strong bases, strong oxidisers, chlorites and hypochlorites.	

PACKAGE MATERIAL INCOMPATIBILITIES

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	phosphoric acid	phosphoric acid	1 mg/m3	3 mg/m3	Not Available	Not Available
Australia Exposure Standards	ammonium bifluoride	Fluorides (as F)	2.5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	20 ppm / 96.9 mg/m3	242 mg/m3 / 50 ppm	Not Available	Not Available
Australia Exposure Standards	oxalic acid	Oxalic acid	1 mg/m3	2 mg/m3	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
phosphoric acid	phosphoric acid	Not Available	Not Available	Not Available
ammonium bifluoride	Ammonium hydrogen fluoride; (Ammonium bifluoride)	11 mg/m3	130 mg/m3	750 mg/m3
ethylene glycol monobutyl ether	2-Butoxyethanol	60 ppm	120 ppm	700 ppm
oxalic acid	Oxalic acid, anhydrous; (Ethanedioic acid)	2 mg/m3	20 mg/m3	500 mg/m3
hydroxyethanediphosphonic acid	Hydroxyethylidene-1,1-diphosphonic acid, 1-	7.2 mg/m3	79 mg/m3	480 mg/m3

Issue Date: 28/12/2020

Product Code: AP161 RUS
Version No: 3.1

Ingredient	Original IDLH	Revised IDLH
phosphoric acid	10,000 mg/m3	1,000 mg/m3
ammonium bifluoride	Not Available	Not Available
ethylene glycol monobutyl ether	700 ppm	Not Available
oxalic acid	500 mg/m3	Not Available
hydroxyethanediphosphonic acid	Not Available	Not Available
ammonium lauryl sulfate	Not Available	Not Available

Exposure controls

Appropriate engineering controls	Maintain adequate ventilation at all times. If ventilation is poor the use of a local exhaust ventilation system is recommended.
Personal protection	
Eye and face protection	Safety glasses with side shields. OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. Lens should be removed in a clean environment only after workers have washed hands thoroughly
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, Neoprene or butyl are recommended for this application
Body protection	See Other protection below
Other protection	Barrier cream. Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Opaque gel		
7.19904141100	opaque go.		
Physical state	Gel	Relative density (Water = 1)	1.05
Odour	Benzaldehyde	Viscosity (cSt)	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	2-3	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Partition coefficient n- octanol / water	Not Available
Initial boiling point and boiling range (°C)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Non flammable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Molecular weight (g/mol)	Not Available
Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7			
Chemical stability	nstable in the presence of incompatible materials. roduct is considered stable. azardous polymerisation will not occur.			
Possibility of hazardous reactions	See section 7			
Conditions to avoid	See section 7			
Incompatible materials	See section 7			
Hazardous decomposition products	See section 5			

Product Code: AP161 Issue Date: 28/12/2020 Version No: 3.1

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects					
Inhaled	Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness.				
Ingestion	Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. Immediate pain and difficulties in swallowing and speaking may also be evident. Ingestion of large quantity of phosphoric acid may cause severe abdominal pains, thirst, academia, difficult breathing, convulsions, collapse, shock and death. Although less hazardous than nitric and sulfuric acid, phosphoric acid has equal corrosive action upon ingestion.				
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption The material may cause irritation to the skin. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
Eye	Vapours from the product may produce transient discomfort to the eye characterised by tearing or conjunctival redness (as with windburn). Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision.				
Chronic	Repeated exposure or prolonged contact may produce dermatitis, and conjunctivitis.				

Toxicological effects of ingredients

oxalic acid	Acute toxicity	Oral LD50 (rat) 475 mg/kg Dermal LD50 (rabbit) 2000 mg/kg
Oxalic acid		Contact with skin may result in irritation. Solutions of 5% to 10% oxalic acid are irritating to the skin after prolonged exposure and can cause
	Skin corrosion/irritation	corrosive injury.
	Eye damage/irritation	A severe eye irritant. Contamination of eyes can result in permanent injury.
	Respiratory/skin sensitization	Not sensitising
	Germ cell mutagenicity	Non-mutagenic
	Carcinogenicity Reproductive toxicity	No available data Not toxic to reproduction
	STOT (single exposure)	
	STOT (single exposure)	Exposure to this compound can result in systemic effects including kidney damage, muscle twitching, cramps and nervous system complaints. Long term exposure can result in kidney stones and stone formation in the urinary tract.
	Aspiration toxicity	No available data
phosphoric acid	Acute toxicity	Oral LD50 (rat): 1250 mg/kg Dermal LD50 (rabbit): 2740 mg/kg
	Skin corrosion/irritation	Corrosive to skin - may cause skin burns
	Eye damage/irritation	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.
	Respiratory/skin sensitization Germ cell mutagenicity	No data available No data available
	Carcinogenicity	No data available
	Reproductive toxicity	No data available
	STOT (single exposure)	No data available
	STOT (repeated exposure)	Prolonged exposures can cause necrosis of nasal passages and oedema of lungs
	Aspiration toxicity	No data available
ethylene glycol monobutyl	Acute toxicity	Oral LD50 (guinea pig) 1414 mg/kg Dermal LD50 (guinea pig) >2000 mg/kg Inhalation LC0 >3.1 mg/l>641 ppm 1h
ether	Skin corrosion/irritation	Causes skin irritation.
	Eye damage/irritation	Causes serious eye irritation.
	Respiratory/skin sensitization	Not classified No study available.
	Germ cell mutagenicity	Not classified
	Carcinogenicity	Not classified
	Reproductive toxicity	Not classified
	STOT (single exposure)	High concentrations may cause central nervous system depression
	STOT (repeated exposure)	Based on repeated exposure toxicity values, not classified
	Aspiration toxicity	Based on physico-chemical values or lack of human evidence, not classified
ammonium lauryl sulfate	Acute toxicity	no data available
	Skin corrosion/irritation	May cause skin irritation
	Eye damage/irritation	May cause eye irritation
	Respiratory/skin sensitization	no data available
	Germ cell mutagenicity	no data available
	Carcinogenicity	no data available
	Reproductive toxicity	no data available
	STOT (single exposure)	no data available
	STOT (repeated exposure)	no data available no data available
	Aspiration toxicity	no data avaliabile
ammonium bifluoride	Acute toxicity	Oral LD50 (rat) 60 – 130 mg/kg
	Skin corrosion/irritation	Causes skin burns. Contact with liquid is corrosive and causes severe burns and ulceration
	Eye damage/irritation	Causes eye burns
	Respiratory/skin sensitization	no data available
	Germ cell mutagenicity	no data available no data available
	Carcinogenicity Penroductive toxicity	
	Reproductive toxicity STOT (single exposure)	no data available no data available
	STOT (single exposure) STOT (repeated exposure)	Chronic inhalation and may cause chronic fluoride poisoning (fluorosis)
	Aspiration toxicity	no data available
hydroxyethanediphosphonic	Acute toxicity	Oral LD50 (rat) 1440 – 3550 mg/kg
acid	Skin corrosion/irritation	Causes severe skin burns
aciu	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	No information available
	Germ cell mutagenicity	Not considered to be genotoxic
	Carcinogenicity	No information available
	Reproductive toxicity	Not considered to cause reproductive or developmental toxicity
	STOT (single exposure)	Inhalation may cause burning of the nose and throat, nausea, vomiting and diarrhoea
	STOT (repeated exposure)	No information available
	Aspiration toxicity	No information available

Issue Date: 28/12/2020

Product Code: **AP161** Version No: **3.1**

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

· · · · · · · · · · · · · · · · · · ·	Endpoint	Duration (Hr.)	Species	Value
ammonium bifluoride	LC50	96	Fish	0.068mg/L
	EC50	48	Crustacea	97mg/L
	EC50	96	Algae or other aquatic plants	43mg/L
	NOEC	96	Crustacea	0.79mg/L
phosphoric acid	LC50	96	Fish	-43-72mg/L
	EC50	48	Crustacea	>5.62mg/L
	EC50	72	Algae or other aquatic plants	77.9mg/L
	NOEC	48	Crustacea	5.62mg/L
ethylene glycol monobutyl	LC50	96	Fish	1250-mg/L
ether	EC50	48	Crustacea	164mg/L
	EC50	72	Algae or other aquatic plants	623mg/L
	NOEL	336	Not Available	49.50000-mg/L
ammonium lauryl sulfate	Not Available	Not Available	Not Available	Not Available
oxalic acid	EC50	48	Crustacea	-125-150mg/L
	EC50	72	Algae or other aquatic plants	>18.39-<19.92mg/L
	NOEC	0.33	Algae or other aquatic plants	-0.002-0.003e mol/dm3
hydroxyethanediphosphonic	LC50	96	Fish	195mg/L
acid	EC50	48	Crustacea	409mg/L
	EC50	96	Algae or other aquatic plants	3mg/L
	EC0	24	Crustacea	=39.6mg/L
	NOEC	504	Crustacea	0.1mg/L

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems. Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
phosphoric acid	HIGH	HIGH
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)
oxalic acid	LOW	LOW
hydroxyethanediphosphonic acid	HIGH	HIGH

Bio accumulative potential

Ingredient	Bioaccumulation
phosphoric acid	LOW (LogKOW = 0.7699)
ethylene glycol monobutyl ether	LOW (BCF = 2.51)
oxalic acid	LOW (LogKOW = -1.7365)
hydroxyethanediphosphonic acid	LOW (BCF = 71)

Mobility in soil

Ingredient	Mobility
phosphoric acid	HIGH (KOC = 1)
ethylene glycol monobutyl ether	HIGH (KOC = 1)
oxalic acid	HIGH (KOC = 1.895)
hydroxyethanediphosphonic acid	LOW (KOC = 20.81)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations.
Product / packaging disposal	Product residues and containers should be disposed of in accordance with local government regulations.

SECTION 14 TRANSPORT INFORMATION

Labels Required

•	
Marine Pollutant	NO
HAZCHEM	2X

Issue Date: 28/12/2020

Product Code: AP161 Version No: 3.1

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

PHOSPHORIC ACID (7664-38-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

AMMONIUM BIFLUORIDE (1341-49-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Azadrous Criefincial Information System (ICCS) - Fazarous Criefincials Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 7 Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

OXALIC ACID (144-62-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

AMMONIUM LAURYL SULFATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

HYDROXYETHANEDIPHOSPHONIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4 Australian Inventory of Industrial Chemicals (AIIC)

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	28/12/2020
Initial Date	18/11/2016

SDS Version Summary

Version	Issue Date	Sections Updated
3.1	28/12/2020	Sections 2, 3, 4, 5, 7, 11, 12, 15, 16 have been updated or corrected

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancel

ACGIH: American Conference of Government Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

Immediate Danger to Life or Health Concentrations IDLH: OSE: Odour Safety Factor

NOAEL: No Observed Effects Leve Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: Bio Concentration Factors Biological Exposure Index

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End of SDS

SAFETY DATA SHEET



SPOTAWAY U

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: AP493 Version No: 2.1 Issue date: 31/12/2020

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

1 roduct identifier			
Product name	SPOTAWAY U		
Product code	AP493		
Pack sizes	500ml: 5L & 20L		

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Urine spot remover

Details of the supplier of the safety data sheet

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD
Address	11 Gamma Close, Beresfield 2322 NSW Australia
Telephone	(02) 4966 5516
Website	www.actichem.com.au
Email	info@actichem.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	6
GHS Classification	Eye Damage Category 2.
	Classification drawn from HCIS and ECHA C&L Inventory.

Label elements

Hazard pictogram



SIGNAL WORD	WARNIN
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Hazard statement(s)

H319 Causes serious eye irritation

Precautionary statement(s) Prevention

P280	Wear eye protection/face protection.
P264	Wash exposed skin thoroughly after handling

Product Code: AP493 SPC
Version No: 2.1

Precautionary statement(s) Response

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statement(s) Storage

Not applicable

Precautionary statement(s) Disposal

Not applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7722-84-1	<8%	hydrogen peroxide

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water for 10-15 minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If pain persists or recurs seek medical attention. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Flush skin with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If furnes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Immediately give a glass of water. Do NOT induce vomiting. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed.

Hydrogen peroxide at moderate concentrations (5% or more) is a strong oxidant.

- Direct contact with the eye is likely to cause comeal damage especially if not washed immediately. Careful ophthalmologic evaluation is recommended, and the possibility of local corticosteroid therapy should be considered.
- Because of the likelihood of systemic effects attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided.
- There is remote possibility, however, that a nasogastric or gastric tube may be required for the reduction of severe distension due to gas formation.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

Special hazards arising from the substrate or mixture

Fire incompatibilities	None known
Advice for firefighters	
Fire fighting	Alert Fire Brigade and tell them location and nature of hazard. Product will produce oxygen which will support and stimulate combustion. Wear breathing apparatus plus protective gloves in the event of a fire. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire
Fire/Explosion Hazard	Product will produce oxygen which will support and stimulate combustion. Expansion or decomposition on heating may lead to violent rupture of containers.
HAZCHEM	Not applicable

Product Code: AP493 Version No: 2.1

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

	Avoid all personal contact, including inhalation.
	Wear protective clothing when risk of exposure occurs
	Use in a well-ventilated area.
0-4-1	Avoid contact with incompatible materials.
Safe handling	When handling, DO NOT eat, drink or smoke.
	Keep containers securely sealed when not in use.
	Store in containers with vented lids
	Avoid physical damage to containers.
Other information	Store away from incompatible materials

Conditions for safe storage, including any incompatibilities

Suitable container	Store only in original container
Storage incompatibility	Avoid storage with reducing agents, acids and alkalis. Avoid storage with combustible organic matter.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL) INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	hydrogen peroxide	Hydrogen peroxide	1.4 mg/m3 / 1 ppm	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
hydrogen peroxide	Hydrogen peroxide - 30%	33 ppm	170 ppm	330 ppm

Ingredient	Original IDLH	Revised IDLH
hydrogen peroxide	75 ppm	75 [Unch] ppm

Exposure controls

Thermal hazards

Not Available

Appropriate engineering controls	Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended.
Personal protection	
Eye and face protection	Safety glasses with side shields OR Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation Lens should be removed in a clean environment only after workers have washed hands thoroughly.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves. Neoprene is recommended for this application
Body protection	See Other protection below
Other protection	Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Product Code: AP493 Version No: 2.1

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid		
Physical state	Liquid	Relative density (Water = 1)	1.0
Odour	Mild peroxide odour	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	3.5 – 4.5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. Solutions of hydrogen peroxide slowly decompose, releasing oxygen.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

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Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Inhaling excessive levels of mist may result in headache, dizziness, vomiting, diarrhoea, irritability, sleeplessness and fluid in the lungs, and cause extreme irritation of the nose and chest, cough, discomfort, shortness of breath and inflammation of the nose and throat.
Ingestion	Accidental ingestion of the material may be harmful and may produce serious damage to the health of the individual. Hydrogen peroxide may cause blistering and bleeding from the throat and stomach. When swallowed, it may release large quantities of oxygen which could hyper-distend the stomach and gut and may cause internal bleeding, mouth and throat burns and rupture of the gut.
Skin Contact	Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models).
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health.

Toxicological effects of ingredients

. can concentration on magne		
Hydrogen Peroxide 50%	Acute toxicity	Oral LD50 (rat) 1127 mg/kg (calculated)
	Skin corrosion/irritation	Highly irritating
	Eye damage/irritation	Corrosive
	Respiratory/skin sensitization	Not sensitising.
	Germ cell mutagenicity	No adverse effect observed (negative)
	Carcinogenicity	Not a carcinogenic substance according to MAK, IARC, NTP, OSHA, ACGIH
	Reproductive toxicity	No available data
	STOT (single exposure)	No available data
	STOT (repeated exposure)	No available data
	Aspiration toxicity	No available data

Product Code: AP493 Version No: 2.1

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	Endpoint	Duration (Hr.)	Species	Value
Hydrogen peroxide 50%	LC50	96	Fish	0.020 mg/l
	EC50	3	Algae or other aquatic plants	0.27 mg/l
	EC50	48	Crustacea	2.32 mg/l
	EC50	72	Algae or other aquatic plants	0.71 mg/l
	NOEC	192	Fish	0.028 mg/l

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
hydrogen peroxide	Under ambient conditions quick hydrolysis, reduction or decomposition occurs.	Photochemical degradation (air) takes place.

Bio accumulative potential

Ingredient	Bioaccumulation
hydrogen peroxide	LOW (LogKOW = -1.571)

Mobility in soil

Ingredient	Mobility
hydrogen peroxide	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations
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SECTION 14 TRANSPORT INFORMATION

Labels Required

<u>-</u>	
Marine Pollutant	NO
HAZCHEM	Not applicable

Land transport (Not Applicable): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

HYDROGEN PEROXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	31/12/2020
Initial Date	08/12/2016

SDS Version Summary

,		
Version	Issue Date	Sections Updated
2.1	31/12/2020	Sections 2, 3, 11, 12, 15, 16 have been updated or corrected

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Product Code: AP493 Version No: 2.1

Definitions and abbreviations

PC-TWA; Permissible Concentration-Time Weighted Average Permissible Concentration-Short Term Exposure Limit PC-STEL: IARC: International Agency for Research on Cancer

ACGIH: American Conference of Government Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

Immediate Danger to Life or Health Concentrations IDLH:

Odour Safety Factor OSF: NOAEL: No Observed Effects Level Threshold Limit Value TLV: Limit Of Detection LOD: Odour Threshold Value OTV: BCF: Bio Concentration Factors Biological Exposure Index BEI:

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End of SDS

SAFETY DATA SHEET



BROWNAWAY

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: AP494 Version No: 2.1 Issue date: 12/04/2021

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	BROWNAWAY	
Product code	AP494	
Pack sizes	500ml & 5L	

Relevant identified uses of the substance or mixture and uses advised against

Details of the supplier of the safety data sheet

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD	
Address	Gamma Close, Beresfield 2322 NSW Australia	
Telephone	2) 4966 5516	
Website	www.actichem.com.au	
Email	info@actichem.com.au	

Emergency telephone number

yyyyyyyyyyyyy	
Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 1126
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

 ${\sf HAZARDOUS\ CHEMICAL.\ NON-DANGEROUS\ GOODS.\ According\ to\ the\ WHS\ Regulations\ and\ the\ ADG\ Code.}$

Poisons Schedule	Not Applicable	
GHS Classification	Skin Corrosion/Irritation Category 2, Eye Damage/Irritation Category 1	
	Classification drawn from HCIS and ECHA C&L Inventory.	

Label elements

Hazard pictogram



SIGNAL WORD	DANGER		
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Hazard statement(s)

nazaru Statement(s)		
H315	Causes skin irritation	
H318	Causes serious eye damage	

Precautionary statement(s) Prevention

,	
P280	Wear protective gloves and eye protection.
P264	Wash exposed skin thoroughly after handling

Product Code: AP494

Version No: 2.1

Precautionary statement(s) Response		
P305+P310+P351+P338	IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P302+P362+P352+P332+P313	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice / attention. Take off contaminated clothing and wash before reuse	

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
77-92-9	<10	<u>citric acid</u>
79-14-1	<10	glycolic acid
151-21-3	<10	sodium lauryl sulphate
67-63-0	<10	isopropanol
2809-21-4	<10	hydroxyethanediphosphonic acid
Trade secret	<10	proprietary polymer

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water for 10-15 minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Not applicable

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

HAZCHEM

Extinguishing n	nedia
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Extinguishing media	The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used.
	Choice of extinguishing media should take into account surrounding areas

Special hazards arising from the substrate or mixture.

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Fire incompatibilities	None known	
Advice for firefighters		
Fire fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.	
Fire/Explosion Hazard	Non-combustible. Not considered to be a significant fire risk. Expansion or decomposition on heating may lead to violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO), carbon dioxide (CO2) and other pyrolysis products typical of burning organic material May emit corrosive fumes.	

Product Code: AP494 Version No: 2.1

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
PPE	Personal Protective Equipment advice is contained in Section 8 of the SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers.
Other information	Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities

Suitable container	Store only in original container
Storage incompatibility	Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air. Avoid strong bases. Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	isopropanol	Isopropyl alcohol	400 ppm / 983 mg/m3	1230 mg/m3 / 500 ppm	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Citric acid	Citric acid	0.37 mg/m3	4 mg/m3	590 mg/m3
Glycolic acid	Glycolic acid; (Hydroxyacetic acid)	4.7 mg/m3	51 mg/m3	390 mg/m3
Sodium lauryl sulphate	Sodium lauryl sulphate	3.9 mg/m3	42 mg/m3	260 mg/m3
isopropanol	Isopropyl alcohol	400 ppm	2000 ppm	12000 ppm
hydroxyethanediphosphonic acid	Hydroxyethylidene-1,1-diphosphonic acid, 1-; (Hydroxyethylidine bisphosphonic acid, 1-)	7.2 mg/m3	79 mg/m3	480 mg/m3

Ingredient	Original IDLH	Revised IDLH
Citric acid	Not Available	Not Available
Glycolic acid	Not Available	Not Available
Sodium lauryl sulphate	Not available	Not available
isopropanol	2000 ppm	Not Available
hydroxyethanediphosphonic acid	Not Available	Not Available

Product Code: **AP494**Version No: **2.1**

Exposure controls Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. Appropriate engineering controls If ventilation is poor, then the use of a local exhaust ventilation system is recommended. Personal protection Safety glasses with side shields OR Chemical goggles. Eye and face protection Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. - Lens should be removed in a clean environment only after workers have washed hands thoroughly. Skin protection See Hand protection below Wear chemical protective gloves. Neoprene is recommended for this application Hands/feet protection **Body protection** See Other protection below Overalls. P.V.C. apron. Barrier cream. Other protection Skin cleansing cream. Eye wash unit. Thermal hazards Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information	on book	n nhuciaal	and chemical	proportion
intormation	on basic	c bnysicai	and chemical	properties

Appearance	Clear liquid		
Physical state	Liquid	Relative density (Water = 1)	1.0
Odour	Slight chemical	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	2.5 – 3.0	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

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SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives). Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Еуе	If applied to the eyes, this material causes severe eye damage. Isopropanol vapour may cause mild eye irritation. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision.
Chronic	No applicable data.

Toxicological effects of ingredients

citric acid	Acute toxicity	Oral LD50 (rat) 3000 – 12000 mg/kg
	Skin corrosion/irritation	May cause skin irritation, redness
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	No evidence of sensitisation
	Germ cell mutagenicity	No evidence of mutagenicity.
	Carcinogenicity	No evidence of carcinogenicity
	Reproductive toxicity	No evidence of reproductive or developmental toxicity
	STOT (single exposure)	May cause respiratory irritation; Inhalation of citric acid aerosols may induce coughing and bronchoconstriction.
	STOT (repeated exposure)	Not considered to cause serious damage to health from repeated exposure
	Aspiration toxicity	No information available
alveelie eeid	A	Ozel L DC0 (ret) 2040 mg/kg labelating L OC0 (ret) 7400 mg/mg 4b
glycolic acid	Acute toxicity	Oral LD50 (rat) 2040 mg/kg Inhalation LC50 (rat) 7100 mg/m3 4h Severe skin irritation
	Skin corrosion/irritation	
	Eye damage/irritation Respiratory/skin sensitization	Causes severe burns. Risk of serious eye damage. Will affect Eyes with Corrosion, Ulceration, May cause irreversible eye damage. No data available
	Germ cell mutagenicity	No adverse effects observed
	-	
	Carcinogenicity Reproductive toxicity	Not carcinogenic Not toxic to reproduction
	STOT (single exposure)	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract
	STOT (repeated exposure) Aspiration toxicity	No data available No data available
dium lauryl sulphate	Acute toxicity	Oral LD50 (rat) 977 mg/kg Dermal LD50 (rabbit) 580 mg/kg
	Skin corrosion/irritation	Rabbit, 4 hour patch test, 25%: Strong erythema and edema (Data on sodium dodecyl sulfate)(48)
	Eye damage/irritation	Rabbit, Draize test, 20%: Strongly irritating (Data on sodium dodecyl sulfate)(48)
	Respiratory/skin sensitization	Guinea pig, Buehler Test: Negative (Data on sodium dodecyl sulfate)(48)
	Germ cell mutagenicity	Ames test (TA98, TA100, WP2try-): Negative / Rec-assay (H17, M45): Negative
	Carcinogenicity	AS (Alcohol Sulphates) are not carcinogenic
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
isopropanol	Acute toxicity	Oral LD50 (rat) 5045 – 5840 mg/kg Dermal LD50 (rabbit) 12800 mg/kg Inhalation LC50 (rat) 16000 ppm/8h
ioopi opaiioi	Skin corrosion/irritation	May be irritating to skin
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	Not expected to be a sensitizer
	Germ cell mutagenicity	Not considered to be a mutagenic hazard
	Carcinogenicity	Not considered to be a carcinogenic hazard.
	Reproductive toxicity	Not considered to be toxic to reproduction
	STOT (single exposure)	May cause drowsiness or dizziness
	STOT (repeated exposure)	Not expected to cause toxicity to a specific organ
	Aspiration toxicity	Not expected to be an aspiration hazard
hydroxyethane-	Acute toxicity	Oral LD50 (Rats): 1,440 - 3,550 mg/kg - (Mice): 1,100 mg/kg
diphosphonic acid	Skin corrosion/irritation	Causes severe skin burns
	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	No information available
	Germ cell mutagenicity	Not considered to be genotoxic
	Carcinogenicity	No information available
	Reproductive toxicity	Not considered to cause reproductive or developmental toxicity
	STOT (single exposure)	Inhalation may cause burning of the nose and throat, nausea, vomiting and diarrhoea
	STOT (repeated exposure)	No information available
	Aspiration toxicity	No information available
proprietary polymer	Acute toxicity	Oral LD50 (rat) >5000 mg/kg
	Skin corrosion/irritation	Unlikely to cause skin irritation.
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	It is not a skin sensitizer.
	Germ cell mutagenicity	There is no evidence of mutagenic potential.
	Carcinogenicity	It is unlikely to present a carcinogenic hazard to man. (NTP / IARC / ACGIH / OSHA)
	Reproductive toxicity	None anticipated
	STOT (single exposure)	No Data Available
		No Data Available
	STOT (repeated exposure)	NO Data Available

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SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	Endpoint	Duration (Hr.)	Species	Value
citric acid	LC50	48	Fish	440 mg/L
	EC50	24	Daphnia	1535 mg/L
	EC50	192	algae	425 mg/L
glycolic acid	LC50	96	Fish	>5-mg/L
	EC50	48	Crustacea	141mg/L
	EC50	72	Algae or other aquatic plants	21.6mg/L
	NOEC	72	Algae or other aquatic plants	10mg/L
sodium lauryl sulphate	LC50	96	Fish	0.59-mg/L
	EC50	48	Crustacea	=0.939mg/L
	EC50	96	Algae or other aquatic plants	-0.4-3.7mg/L
	BCF	1	Fish	0.85-mg/L
	EC15	Not coded	Not Available	-0.05-0.25mg/L
	NOEC	0.08	Fish	0.0000013-mg/L
isopropanol	LC50	96	Fish	9-640mg/L
	EC50	48	Crustacea	12500mg/L
	EC50	72	Algae or other aquatic plants	>1000mg/L
	EC0	24	Crustacea	5-102mg/L
	NOEC	504	Crustacea	=30mg/L
hydroxyethanediphosphonic	LC50	96	Fish	195mg/L
acid	EC50	48	Crustacea	409mg/L
	EC50	96	Algae or other aquatic plants	3mg/L
	EC0	24	Crustacea	=39.6mg/L
	NOEC	504	Crustacea	0.1mg/L
Proprietary polymer C	LC50	96	Fish	100 mg/l
	EC50	48	Aquatic invertebrates)	100 mg/l
	EC50	72	Algae	100 mg/l

Toxic to aquatic organisms. Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Glycolic acid	LOW	LOW
citric acid	LOW	LOW
sodium lauryl sulfate	HIGH	HIGH
Proprietary polymer	LOW	NO DATA

Bio accumulative potential

Ingredient	Bioaccumulation
Glycolic acid	LOW (LogKOW = -1.11)
citric acid	LOW (LogKOW = -1.64)
sodium lauryl sulfate	LOW (BCF = 7.15)
Proprietary polymer	LOW

Mobility in soil

Ingredient	Mobility
Glycolic acid	HIGH (KOC = 1)
citric acid	LOW (KOC = 10))
sodium lauryl sulfate	LOW (KOC = 10220)
Proprietary polymer	NO DATA

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations
	Product residues and containers should be disposed of in accordance with local government regulations

Product Code: AP494 BRO
Version No: 2.1

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

CITRIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

GLYCOLIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

SODIUM LAURYL SULFATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

HYDROXYETHANEDIPHOSPHONIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australian Inventory of Industrial Chemicals (AIIC)

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	12/04/2021
Initial Date	26/09/2017

SDS Version Summary

-			
Version	Issue Date	Sections Updated	
2.1	12/04/2021	Sections 2, 3, 11, 12, 15, 16 have been updated or corrected	

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

PC-TWA; Permissible Concentration-Time Weighted Average
PC-STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer

ACGIH: American Conference of Government Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

IDLH: Immediate Danger to Life or Health Concentrations

OSF: Odour Safety Factor
NOAEL: No Observed Effects Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: Bio Concentration Factors
BEI: Biological Exposure Index

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SAFETY DATA SHEET



PROTEIN SPOTTER

APPLIED PRODUCTS AUSTRALIA PTYLTD

Catalogue number: **AP495** Version No: **2.1** Issue date: **12/04/2021**

Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	PROTEIN SPOTTER
Product code	AP495
Pack sizes	500ml & 5L

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Spotter for protein based stains

Details of the supplier of the safety data sheet

Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD	
Address	11 Gamma Close, Beresfield 2322 NSW Australia	
Telephone	(02) 4966 5516	
Website	www.actichem.com.au	
Email	info@actichem.com.au	

Emergency telephone number

Association / Organisation Poisons Information Centre		Poisons Information Centre
Emergency tele	lephone umbers	13 1126
Other emergency tele	lephone umbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable	
GHS Classification	Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1,	
	Classification drawn from HCIS and ECHA C&L Inventory.	

Label elements

Hazard pictogram



SIGNAL WORD	DANGER
SIGNAL WORD	DANGER

Hazard statement(s)

H315	Causes skin irritation
H318	Causes serious eye damage

Precautionary statement(s) Prevention

• • • • • • • • • • • • • • • • • • • •	
P280	Wear protective gloves and eye protection.
P264	Wash exposed skin thoroughly after handling

Precautionary statement(s) Response

P305+P310+P351+P338	IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P362+P352+P332+P313	IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation occurs, get medical advice / attention.

Product Code: AP495 PROTVersion No: 2.1

Precautionary statement(s) Storage

Not applicable

Precautionary statement(s) Disposal

Not applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
141-43-5	<10	<u>monoethanolamine</u>
1336-21-6	<10	ammonium hydroxide
111-76-2	<10	ethylene glycol monobutyl ether

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: Obtain medical advice / attention without delay Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If necessary, transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Exting	guishing	media
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Extinguishing media	The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used.
Extiliguishing media	Choice of extinguishing media should take into account surrounding areas

Special hazards arising from the substrate or mixture

Fire incompatibility	None known
Advice for firefighters	
Fire fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. Slight hazard when exposed to heat, flame and oxidisers.

Fire/Explosion Hazard

Non-combustible.

Not considered to be a significant fire risk.

Expansion or decomposition on heating may lead to violent rupture of containers.

Decomposes on heating and may produce toxic fumes of carbon monoxide (CO), carbon dioxide (CO2) and other pyrolysis products typical of burning organic material

May emit corrosive fumes.

HAZCHEM

Not applicable

Product Code: **AP495** Version No: **2.1**

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

	Clean up all spills immediately.
	Avoid contact with skin and eyes.
	Control personal contact with the substance, by using protective equipment.
Minor Spills	Contain and absorb spill with sand, earth, inert material or vermiculite.
·	Wipe up.
	Place in a suitable, labelled container for waste disposal.
	Control personal contact with the substance, by using protective equipment as required.
	Prevent spillage from entering drains or water ways.
Major Spills	Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations.
, ,	Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
PPE	Personal Protective Equipment advice is contained in Section 8 of the SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

	Avoid all personal contact, including inhalation.
	Wear protective clothing when risk of exposure occurs.
	Use in a well-ventilated area.
Cafa handlina	DO NOT allow material to contact humans, exposed food or food utensils.
Safe handling	Avoid contact with incompatible materials.
	When handling, DO NOT eat, drink or smoke.
	Keep containers securely sealed when not in use.
	Avoid physical damage to containers.
Other information	Store away from incompatible materials.

Conditions for safe storage, including any incompatibilities

Polyethylene or polypropylene container. Suitable container Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.	
Storage incompatibility	None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	monoethanolamine	ethanolamine	7.5 mg/m3 / 3 ppm	15 mg/m3 / 6 ppm	Not Available	Not Available
Australia Exposure Standards	ammonium hydroxide	ammonia	17 mg/m3 / 25 ppm	24 mg/m3 / 35 ppm	Not Available	Not Available
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	96.9 mg/m3 / 20 ppm	242 mg/m3 / 50 ppm	Not Available	

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
monoethanolamine	ethanolamine	6 ppm	6 ppm	1,000 ppm
ammonium hydroxide	ammonium hydroxide	61 ppm	330 ppm	2,300 ppm
ethylene glycol monobutyl ether	2-Butoxyethanol	20 ppm	20 ppm	700 ppm

Ingredient	Original IDLH	Revised IDLH
monoethanolamine	1,000 ppm	30 ppm
ammonium hydroxide	500 ppm	300 ppm
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm

Product Code: **AP495** Version No: **2.1**

Exposure controls Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. Appropriate engineering controls If ventilation is poor, then the use of a local exhaust ventilation system is recommended. Personal protection Safety glasses with side shields OR Chemical goggles Eye and face protection Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye redness or irritation. - Lens should be removed in a clean environment only after workers have washed hands thoroughly. Skin protection See Hand protection below Hands/feet protection Wear chemical protective gloves. Butyl is recommended for this application **Body protection** See Other protection below Overalls. P.V.C. apron. Other protection Barrier cream. Skin cleansing cream. Eye wash unit. Thermal hazards Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear colourless liquid		
Physical state	Liquid	Relative density (Water = 1)	1.0
Odour	Ammonia	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	11.8	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit(%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

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SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Prolonged or regular minor exposure to the vapour may cause persistent irritation of the eyes, nose and upper respiratory tract.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. Skin contact is not thought to have harmful <u>health</u> effects (as classified under EC Directives). Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	No applicable data.

Toxicological effects of ingredients

monoethanolamine	Acute toxicity	Oral LD50 (rat) 1089 mg/kg Dermal LD50 (rat) 2504 mg/kg Inhalation LC50 >1300 mg/m3 6h
	Skin corrosion/irritation	Causes severe skin burns and eye damage.
	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	No sensitizing effect
	Germ cell mutagenicity	The substance was not genotoxic in a test with mammals
	Carcinogenicity	Not carcinogenic
	Reproductive toxicity	Not classified
	STOT (single exposure)	May cause respiratory irritation
	STOT (repeated exposure)	The substance may cause damage to the upper respiratory tract after repeated inhalation, as shown in animal studies
	Aspiration toxicity	No aspiration hazard expected
ammonium hydroxide	Acute toxicity	Oral LD50 (rat) 350 mg/kg Inhalation (human) 400 - 700 ppm causes severe irritation. 2000 - 3000 ppm may be fatal within 30 minutes. 10,000 ppm is immediately fatal
	Skin corrosion/irritation	Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.
	Eye damage/irritation	Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury
	Respiratory/skin sensitization	No Data Available
	Germ cell mutagenicity	No Data Available
	Carcinogenicity	No Data Available
	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	Repeated or prolonged exposure may result in bronchitis
	Aspiration toxicity	No Data Available
ethylene glycol monobutyl	Acute toxicity	Oral LD50 (quinea pig) 1414 mg/kg Dermal LD50 (quinea pig) >2000 mg/kg Inhalation LC0 >3.1 mg/l>641 ppm 1h
ether	Skin corrosion/irritation	Causes skin irritation.
	Eye damage/irritation	Causes serious eye irritation.
	Respiratory/skin sensitization	Not classified No study available.
	Germ cell mutagenicity	Not classified
	Carcinogenicity	Not classified
	Reproductive toxicity	Not classified
	STOT (single exposure)	High concentrations may cause central nervous system depression
	STOT (repeated exposure)	Based on repeated exposure toxicity values, not classified
	Aspiration toxicity	Based on physico-chemical values or lack of human evidence. Not classified
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SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	Endpoint	Duration (Hr.)	Species	Value
monoethanolamine	LC50	96	Fish	2-70mg/L
	EC50	48	Crustacea	32.6mg/L
	EC50	72	Algae or other aquatic plants	2.1mg/L
	NOEC	504	Crustacea	0.85mg/L
ammonium hydroxide	LC50	96	Lepomis macrochirus (Bluegill sunfish)	0.87 mg/l
	LC50	96	Pimephales promelas (fathead minnow)	1.2 mg/l
	EC50	48	Daphnia magna (Water flea),	0.66 mg/l
ethylene glycol monobutyl	LC50	96	Fish	1-250mg/L
ether	EC50	48	Crustacea	>1-mg/L
	EC50	96	Algae or other aquatic plants	>1-mg/L
	NOEC	24	Crustacea	>1-mg/L

Moderately toxic to fish and aquatic organisms. DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
monoethanolamine	LOW	LOW
ammonium hydroxide	LOW	LOW
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)

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Bio accumulative potential

Ingredient	Bioaccumulation
monoethanolamine	LOW (LogKOW = -1.31)
ammonium hydroxide	LOW (LogKOW = -0.229)
ethylene glycol monobutyl ether	LOW (BCF = 2.51)

Mobility in soil

Ingredient	Mobility
monoethanolamine	HIGH (KOC = 1)
ammonium hydroxide	LOW (KOC = 14.3)
ethylene glycol monobutyl ether	HIGH (KOC = 1)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / packaging disposal Dispose of contents/container in accordance with local regulations.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

MONOETHANOLAMINE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

AMMONIUM HYDROXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

ETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents classified by AIRC monographs.

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	12/04/2021
Initial Date	08/12/2016

SDS Version Summary

	,			
Version Issue Date		Issue Date	Sections Updated	
	2.1	12/04/2021	Sections 2, 3, 11, 12, 15, 16 have been updated or corrected	

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Government Industrial Hygienists

Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit

Immediate Danger to Life or Health Concentrations IDLH:

Odour Safety Factor NOAEL: No Observed Effects Level TLV: Threshold Limit Value Limit Of Detection LOD: OTV: Odour Threshold Value Bio Concentration Factors BEI: Biological Exposure Index

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