



SAFETY DATA SHEET

METHSAN PREWASH

ACTICHEM PTY LTD

Catalogue number: DR634

Version No: 1.1

Issue date: 04/08/2023

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	MethSan PreWash
Product code	DR634
Pack sizes	5L & 20L

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

Relevant identified uses	Decontaminating prewash
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Details of the manufacturer/importer

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

Label elements

Hazard pictograms	
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SIGNAL WORD	DANGER
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Hazard statement(s)

H318	Causes serious eye damage
H315	Causes skin irritation

Precautionary statement(s) Prevention

P280	Wear protective gloves and eye protection.
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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. Wash with plenty of water and soap. If skin irritation occurs, get medical advice / attention.

Precautionary statement(s) Storage

Not applicable

Precautionary statement(s) Disposal

Not applicable

This SDS and the hazard classifications contained herein only apply to the product in its concentrated form as supplied. When diluted as recommended and ready-to-use, they no longer apply. However, good hygiene and housekeeping practices should be adhered to.

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>
Trade secret	<10	<u>proprietary surfactant A</u>
7320-34-5	10 - <30	<u>potassium pyrophosphate</u>
64-02-8	<10	<u>EDTA tetra sodium salt</u>
Trade secret	<10	<u>proprietary surfactant B</u>
Trade secret	<10	<u>proprietary surfactant C</u>
Trade secret	<10	<u>proprietary surfactant D</u>
Trade secret	<10	<u>proprietary surfactant E</u>

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: Seek medical attention without delay. 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. 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.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Seek medical advice / attention without delay. Rinse mouth with water. Give plenty of water to drink provided victim is conscious. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Keep respiratory tract clear. Do NOT induce vomiting.

Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

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.
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Special hazards arising from the substrate or mixture.

Fire incompatibility	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. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. May emit acrid smoke. Decomposes on heating and produces toxic fumes of: carbon monoxide (CO), phosphorus oxides (POx), carbon dioxide (CO ₂) 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 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. Wear protective gloves and eye protection. Prevent, by any means available, spillage from entering drains or water courses. 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

Precautions for safe handling

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. 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.
Other information	

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	Is incompatible with strong acids and oxidising agents.,

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	3 ppm / 7.5 mg/m3	6 ppm / 15 mg/m3	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
monoethanolamine	ethanolamine	6 ppm	6 ppm	1000 ppm
potassium pyrophosphate	Potassium pyrophosphate; (Tetrapotassium diphosphonate)	22 mg/m3	250 mg/m3	1,900 mg/m3
EDTA tetrasodium salt	EDTA tetrasodium salt	EDTA tetrasodium salt	EDTA tetrasodium salt	EDTA tetrasodium salt

Ingredient	Original IDLH	Revised IDLH
monoethanolamine	1,000 ppm	30 ppm
potassium pyrophosphate	Not Available	Not Available
EDTA tetrasodium salt	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	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 elbow length chemical protective gloves. Butyl or neoprene are 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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear yellow liquid		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Lemon	Viscosity (cSt)	Not Available
Odour threshold	Not Available	Auto-ignition temperature	Not Available
pH (as supplied)	11.5 – 12.5	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 Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Nonflammable	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	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	May cause irritation to the respiratory system
Ingestion	Harmful if swallowed. May cause irritation to the mouth, throat, oesophagus and stomach.
Skin Contact	Irritating to the skin. May cause redness, itching and swelling.
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	No relevant 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
tetrapotassium pyrophosphate	Aspiration toxicity	No aspiration hazard expected
	Acute toxicity	Oral LD50 (rabbit) >1000 mg/kg Dermal LD50 (rabbit) >4640 mg/kg
	Skin corrosion/irritation	Causes skin irritation. Irritation is likely to be more severe if the skin is moist or wet
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	EU/CLP • Classification criteria not met
	Germ cell mutagenicity	EU/CLP • Classification criteria not met
	Carcinogenicity	Does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens
	Reproductive toxicity	EU/CLP • Classification criteria not met
	STOT (single exposure)	EU/CLP • Classification criteria not met
EDTA tetrasodium salt	STOT (repeated exposure)	EU/CLP • Classification criteria not met
	Aspiration toxicity	EU/CLP • Classification criteria not met
	Acute toxicity	Oral LD50 (rat): >1780 - <2000 mg/kg
	Skin corrosion/irritation	Contact with skin may result in irritation
	Eye damage/irritation	Irritant (rabbit).
	Respiratory/skin sensitization	Not sensitizing
	Germ cell mutagenicity	No adverse effect observed
	Carcinogenicity	Not listed as carcinogenic according to the International Agency for Research on Cancer (IARC).
	Reproductive toxicity	No Data Available
proprietary surfactant A	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
	Acute toxicity	Oral LD50 (rat) 16800 mg/kg
	Skin corrosion/irritation	Skin irritation
	Eye damage/irritation	Eye irritation
	Respiratory/skin sensitization	No Data Available
	Germ cell mutagenicity	No Data Available
	Carcinogenicity	No Data Available
proprietary surfactant B	Reproductive toxicity	No Data Available
	STOT (single exposure)	No Data Available
	STOT (repeated exposure)	No Data Available
	Aspiration toxicity	No Data Available
	Acute toxicity	Oral LD50 (rat) 2292 mg/kg
	Skin corrosion/irritation	Skin irritant
	Eye damage/irritation	Eye irritant (OECD 437)
	Respiratory/skin sensitization	There is no data available
	Germ cell mutagenicity	No known significant effects or critical hazards.
	Carcinogenicity	No known significant effects or critical hazards.
	Reproductive toxicity	No known significant effects or critical hazards.
	STOT (single exposure)	There is no data available
	STOT (repeated exposure)	There is no data available
	Aspiration toxicity	There is no data available

proprietary surfactant C	Acute toxicity	Oral – Estimate 722.54 mg/kg
	Skin corrosion/irritation	Causes skin irritation. Skin contact will cause redness, itching and swelling.
	Eye damage/irritation	Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, severe pain, and possible burns, necrosis, permanent damage, and blindness.
	Respiratory/skin sensitization	Not a respiratory or skin 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 a reproductive hazard
	STOT (single exposure)	Not expected to cause toxicity to specific organs
	STOT (repeated exposure)	Not expected to cause toxicity to specific organs
proprietary surfactant D	Aspiration toxicity	Not considered to be a aspiration hazard
	Acute toxicity	Oral LD50 (rat) 550 mg/kg Dermal LD50 (rabbit) >2000 mg/kg
	Skin corrosion/irritation	Causes skin irritation.
	Eye damage/irritation	Causes serious eye irritation.
	Respiratory/skin sensitization	This product is not expected to cause skin sensitization.
	Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
	Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
	Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
	STOT (single exposure)	Respiratory tract irritation.
proprietary surfactant E	STOT (repeated exposure)	Not applicable.
	Aspiration toxicity	Not applicable.
	Acute toxicity	Oral (rat) LD50 >1500 mg/kg
	Skin corrosion/irritation	Irritating
	Eye damage/irritation	Causes serious eye damage
	Respiratory/skin sensitization	No available data
	Germ cell mutagenicity	No available data
	Carcinogenicity	No available data
	Reproductive toxicity	No available data
proprietary surfactant A	STOT (single exposure)	No available data
	STOT (repeated exposure)	No available data
	Aspiration toxicity	No available data

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	Endpoint	Duration (Hr.)	Species	Value
potassium pyrophosphate	LC50	96	Fish	>100mg/L
	EC50	48	Crustacea	>100mg/L
	EC50	72	Algae or other aquatic plants	>100mg/L
	NOEC	72	Algae or other aquatic plants	>100mg/L
EDTA tetrasodium salt	LC50	96	Fish	41mg/L
	EC50	48	Crustacea	140mg/L
	EC50	72	Algae or other aquatic plants	=1.01mg/L
	EC10	72	Algae or other aquatic plants	=0.48mg/L
	NOEC	33	Algae or other aquatic plants	0.0003802-mg/L
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
proprietary surfactant A	LC50	96	Fathead minnow (Pimephales promelas).	60.6 mg/l
	LC50	24	Fathead minnow (Pimephales promelas).	100 – 250 mg/l
proprietary surfactant B	EC50	48	Daphnia	37.9 mg/L
	LC50	96	Fish	36.9 mg/L
proprietary surfactant C	LC50	96	Fish	>1-10 mg/L
	EC50	48	Daphnia (water flea)	>1-10 mg/L
proprietary surfactant D	EC50	72	Algae	5.6 mg/L
	EC50	48	Daphnia	2.8 mg/L
	LC50	96	Fish	5.6 mg/L
proprietary surfactant E	LC50	96	Fish	0.859-1.222 mg/L
	NOEC(ECx)	504	Fish	0.5 mg/L

Harmful to aquatic organisms.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
monoethanolamine	LOW	LOW
proprietary surfactant B	Readily biodegradable	
proprietary surfactant C	Readily biodegradable	
proprietary surfactant D	Readily biodegradable	

Bio accumulative potential

Ingredient	Bioaccumulation
monoethanolamine	LOW (LogKOW = -1.31)
proprietary surfactant B	No data available
proprietary surfactant C	Bioaccumulation unlikely
proprietary surfactant D	No data available

Mobility in soil

Ingredient	Mobility
monoethanolamine	HIGH (KOC = 1)
proprietary surfactant B	No data available
proprietary surfactant C	No data available
proprietary surfactant D	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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SECTION 14 TRANSPORT INFORMATION

Labels Required

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

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)

POTASSIUM PYROPHOSPHATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australian Inventory of Industrial Chemicals (AIIC)

EDTA TETRASODIUM SALT 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)

PROPRIETARY SURFACTANT A IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australian Inventory of Industrial Chemicals (AIIC)

PROPRIETARY SURFACTANT B IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australian Inventory of Industrial Chemicals (AIIC)

PROPRIETARY SURFACTANT C IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

PROPRIETARY SURFACTANT D IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australian Inventory of Industrial Chemicals (AIIC)

PROPRIETARY SURFACTANT E IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australian Inventory of Industrial Chemicals (AIIC)

SECTION 16 OTHER INFORMATION

Revision Schedule

Revision Date	Not applicable
Initial Date	04/08/2023

SDS Version Summary

Version	Issue Date	Sections Updated
1.1	04/08/2023	All sections originated

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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