



SAFETY DATA SHEET

Ali Red

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name Ali Red

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

Application Car maintenance product. Detergent.

Uses advised against For professional use only. This product is not recommended for any industrial, professional or consumer use other than the Identified uses above.

Details of the supplier of the safety data sheet

Supplier Autosmart Australia
11 Darrambal Close
Rathmines
NSW 2283
Australia
www.autosmartaustralia.com.au
Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST) (General Information. Transport Information. Mild Medical Information)
autosmart@autosmartaustralia.com.au

Contact Person Mr. Russell Butler

Emergency telephone number

Emergency telephone Emergency No: +44 7808 971321 (24hrs) (Autosmart International, UK)
General Information. Transport Information. Mild medical Information:-
Tel: 02 49 75 14 88 (Mon to Fri, 08:00 - 16:00 AEST)

National emergency telephone number Poison Information Hotline: 13 11 26

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Physical hazards Met. Corr. 1 - H290

Health hazards Acute Tox. 4 - H302 Acute Tox. 3 - H311 Skin Corr. 1B - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

Label elements

Hazard pictograms



Signal word DANGER

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Hazard statements	H290 May be corrosive to metals. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage.
Precautionary statements	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P262 Do not get in eyes, on skin, or on clothing. P320 Specific treatment is urgent (see medical advice on this label). P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	For professional users only.
Contains	phosphoric acid ...%, 2-BUTOXYETHANOL, hydrochloric acid ...%, C9-C11 Alcohol ethoxylate (6), hydrofluoric acid ... %

Other hazards

This product does not contain any substances classified as PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative).

SECTION 3: Composition and information on ingredients

Mixtures

phosphoric acid ...%	15<20%
CAS number: 7664-38-2	
Classification Skin Corr. 1B - H314 Eye Dam. 1 - H318	
2-BUTOXYETHANOL	5<10%
CAS number: 111-76-2 Substance with a Community workplace exposure limit.	
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319	
hydrochloric acid ...%	2<3%
CAS number: 7647-01-0 Substance with a Community workplace exposure limit.	
Classification Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	

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C9-C11 Alcohol ethoxylate (6)	1.5<1.75%
CAS number: 68439-46-3	
Classification	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
hydrofluoric acid ... %	0.7<1.0%
CAS number: 7664-39-3	
Substance with a Community workplace exposure limit.	
Classification	
Acute Tox. 2 - H300	
Acute Tox. 1 - H310	
Acute Tox. 2 - H330	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

Description of first aid measures

General information

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel should wear appropriate protective equipment during any rescue. Get medical attention immediately. Effects may be delayed. Keep affected person under observation. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.

Inhalation

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. Symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Get medical attention immediately.

Ingestion

Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Give milk instead of water if readily available. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Get medical attention immediately.

Skin Contact

It is important to remove the substance from the skin immediately. Take off immediately all contaminated clothing. Care should be taken to avoid contact with contaminants when removing contaminated clothing. First aid personnel should wear appropriate protective equipment during any rescue. Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Apply Calcium Gluconate Gel over the affected areas. Get medical attention immediately. Effects may be delayed. Chemical burns must be treated by a physician. Show this Safety Data Sheet to the medical personnel. Wash contaminated clothing before reuse.

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Eye contact	Get medical attention immediately. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Consult a physician for specific advice. Effects may be delayed. Medical aid should instil several drops of sterile calcium gluconate solution. Show this Safety Data Sheet to the medical personnel.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.
<u>Most important symptoms and effects, both acute and delayed</u>	
General information	See Section 11 for additional information on health hazards. Effects may be delayed. Keep affected person under observation. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Delayed, often serious, breathing problems. Severe irritation of nose and throat.
Ingestion	May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting. Ingestion of even small quantities may be fatal.
Skin contact	A single exposure may cause the following adverse effects: Pain. Unconsciousness, possibly death. Reddened skin if chemical is not removed by washing. Later, white and wrinkled skin without pain, often with delayed skin burns.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. Vapour or spray may cause eye damage, impaired sight or blindness.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Specific notes for fluoride derivatives: Keep affected person under observation. If calcium gluconate gel is available, rub it into affected skin. Do not use this method for treatment of eyes. Massage continuously until pain disappears. If ingested, give milk or calcium gluconate by mouth. Development of symptoms may be delayed for 24 to 48 hours.
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SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. This product is toxic.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours.

Advice for firefighters

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Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.
Hazchem Code	2X

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid inhalation of dust and vapours. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes. Avoid contact with contaminated tools and objects.
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Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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Methods and material for containment and cleaning up

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Do not touch or walk into spilled material. Clear up spills immediately and dispose of waste safely. This product is corrosive. Provide adequate ventilation. Approach the spillage from upwind. Small Spillages: Neutralise with alkali. If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Neutralise with alkali. Neutralise spilled material with crushed limestone, slaked lime (calcium hydroxide), soda ash (sodium carbonate) or sodium bicarbonate. Caution. May generate heat. Following dilution and neutralisation, discharge to the sewer with plenty of water may be permitted. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
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Reference to other sections

Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
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SECTION 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. This product is toxic. Immediate first aid is imperative. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

Conditions for safe storage, including any incompatibilities

Storage precautions

Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Store away from the following materials: Alkalis. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Store in corrosive resistant container with a resistant inner liner. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

Storage class

Toxic storage.

Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

SECTION 8: Exposure controls and personal protection

Control parameters

Occupational exposure limits

phosphoric acid ...%

Long-term exposure limit (8-hour TWA): 1 mg/m³

Short-term exposure limit (15-minute): 3 mg/m³

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): 20 ppm 96.9 mg/m³

Short-term exposure limit (15-minute): 50 ppm 242 mg/m³

Sk

hydrochloric acid ...%

Ceiling value: 5 ppm 7.5 mg/m³

hydrofluoric acid ... %

Ceiling value: 3 ppm 2.6 mg/m³

as F

Sk = Absorption through the skin may be a significant source of exposure.

Ingredient comments

WEL = Workplace Exposure Limits

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)

Ingredient comments

No exposure limits known for ingredient(s).

Exposure controls

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Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with Australia/New Zealand Standard AS/NZS 1337. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The breakthrough time for any glove material may be different for different glove manufacturers. To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. When used with mixtures, the protection time of gloves cannot be accurately estimated. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Thickness: >0.2mm The selected gloves should have a breakthrough time of at least 0.5 hours. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Use thin cotton gloves inside natural rubber gloves if there is an allergy risk to natural rubber.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and complies with Australia/New Zealand Standard AS/NZS 1716. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Full face mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Half mask and quarter mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716.

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Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Store in a demarcated banded area to prevent release to drains and/or watercourses.
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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Red.
Odour	Acidic.
Odour threshold	Not available. Not available.
pH	pH (concentrated solution): ~ 1
Melting point	~ 0°C
Initial boiling point and range	~ 100°C @ 760 mm Hg
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability Limit - Lower(%)	Not applicable. : : Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	~ 1.047 @ (20°C)°C
Solubility(ies)	Soluble in water. Miscible with water.
Partition coefficient	Not available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
Viscosity	~ 1 cSt @ 20°C
Oxidising properties	Not applicable.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.
Volatile organic compound	This product contains a maximum VOC content of 76 g/litre.

SECTION 10: Stability and reactivity

Reactivity	May be corrosive to metals.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.

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Materials to avoid	Alkalis. Amines. Mild steel. Stainless steel. Aluminium. May be corrosive to metals.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Acute Tox. 4 - H302 Harmful if swallowed.

ATE oral (mg/kg) 484.74

Acute toxicity - dermal

Notes (dermal LD₅₀) Acute Tox. 3 - H311 Toxic in contact with skin.

ATE dermal (mg/kg) 489.76

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 38.31

ATE inhalation (dusts/mists mg/l) 5.05

Skin corrosion/irritation

Animal data Corrosive.

Extreme pH ≤ 2 Corrosive.

Serious eye damage/irritation

Serious eye damage/irritation Eye Dam. 1 - H318 Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

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Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe irritation of nose and throat.

Ingestion

May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.

Skin Contact

A single exposure may cause the following adverse effects: Pain. Unconsciousness, possibly death.

Eye contact

Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

Acute and chronic health hazards

Repeated exposure to high concentrations of materials containing fluorine may increase bone density leading to Osteosclerosis.

Route of exposure

Ingestion Inhalation Skin and/or eye contact

Target Organs

No specific target organs known.

Medical Symptoms

Severe skin irritation. Severe lung irritation. Reddened skin if chemical is not removed by washing. Later, white and wrinkled skin without pain, often with delayed skin burns.

Toxicological information on ingredients.

phosphoric acid ...%

Other health effects There is no evidence that the product can cause cancer.

Skin sensitisation

Skin sensitisation Not sensitising.

2-BUTOXYETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,300.0

Species Rat

ATE oral (mg/kg) 1,300.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,270.0

Species Rat

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

Skin sensitisation

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Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation:: Negative. This substance has no evidence of mutagenic properties.
<u>Carcinogenicity</u>	
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility: - NOAEL 720 mg/kg, , Mouse
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 100 mg/kg, , Rat

hydrochloric acid ...%

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	1,449.0
Species	Mouse
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	5,010.0
Species	Rabbit

<u>Skin sensitisation</u>	
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
<u>Carcinogenicity</u>	
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

C9-C11 Alcohol ethoxylate (6)

Other health effects	There is no evidence that the product can cause cancer.
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hydrofluoric acid ... %

Toxicological effects	This product is toxic.
Other health effects	There is no evidence that the product can cause cancer.
<u>Acute toxicity - inhalation</u>	
ATE inhalation (vapours mg/l)	0.5
ATE inhalation (dusts/mists mg/l)	0.05
Acute and chronic health hazards	This chemical can be hazardous when inhaled and/or touched. Toxic in contact with skin.

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Route of exposure	Inhalation Skin absorption Ingestion.
Target Organs	Bone structure Heart & cardiovascular system Teeth Central nervous system
Medical Symptoms	Reddened skin if chemical is not removed by washing. Later, white and wrinkled skin without pain, often with delayed skin burns.

SECTION 12: Ecological information

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

Ecological information on ingredients.

phosphoric acid ...%

Ecotoxicity The product may contribute to an excessive enrichment of the aquatic environment with nutrients. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

hydrochloric acid ...%

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

hydrofluoric acid ... %

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

Toxicity Based on available data the classification criteria are not met.

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Acute toxicity - aquatic invertebrates Not determined.

Acute toxicity - aquatic plants Not determined.

Acute toxicity - microorganisms Not determined.

Acute toxicity - terrestrial Not determined.

Ecological information on ingredients.

phosphoric acid ...%

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, : 100 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC₅₀, : 29 mg/l, Daphnia magna
NOEC, 72 hours: 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 590 mg/l, Freshwater algae

2-BUTOXYETHANOL

Acute aquatic toxicity

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Acute toxicity - fish LC50, 96 hours: > 100 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates EC50, 48 hours: 1550 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC50, >: > 100 mg/l,

Acute toxicity - microorganisms EC50, >: > 1000 mg/l,

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 21 days: > 100 mg/l,

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 100 mg/l, Daphnia magna

hydrochloric acid ...%

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: ~ 7.45 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC50, 96 hours: ~ 24.6 mg/l, Lepomis macrochirus (Bluegill)
LC50, 96 hours: 4-100 mg/l, Fish

Acute toxicity - aquatic invertebrates EC50, 48 hours: ~ 0.492 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC50, 72 hours: ~ 0.78 mg/l, Selenastrum capricornutum

C9-C11 Alcohol ethoxylate (6)

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 10 mg/l, Fish

Acute toxicity - aquatic invertebrates EC50, 48 hours: 10 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC50, 72 hours: 10 mg/l, Algae

hydrofluoric acid ... %

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC50, 48 hours: ~ 10.6 mg/l, Daphnia magna

Persistence and degradability

Ecological information on ingredients.

phosphoric acid ...%

Persistence and degradability

The product contains mainly inorganic substances which are not biodegradable. The other substances in the product are expected to be readily biodegradable.

2-BUTOXYETHANOL

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Persistence and degradability The product is biodegradable.

Biodegradation Water - Degradation (%) 90.4: 28 days

hydrochloric acid ...%

Persistence and degradability The product contains inorganic substances which are not biodegradable.

C9-C11 Alcohol ethoxylate (6)

Persistence and degradability The product is biodegradable.

hydrofluoric acid ... %

Persistence and degradability The product contains inorganic substances which are not biodegradable.

Bioaccumulative potential

Bioaccumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

phosphoric acid ...%

Bioaccumulative Potential The product does not contain any substances expected to be bioaccumulating.

2-BUTOXYETHANOL

Bioaccumulative Potential The product is not bioaccumulating.

Partition coefficient : 0.81

hydrochloric acid ...%

Bioaccumulative Potential The product is not bioaccumulating.

C9-C11 Alcohol ethoxylate (6)

Bioaccumulative Potential The product does not contain any substances expected to be bioaccumulating.

hydrofluoric acid ... %

Bioaccumulative Potential The product does not contain any substances expected to be bioaccumulating.

Mobility in soil

Mobility The product is non-volatile.

Ecological information on ingredients.

phosphoric acid ...%

Mobility The product is soluble in water.

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2-BUTOXYETHANOL

Mobility	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.
Adsorption/desorption coefficient	Water - Koc: ~ 67 @ °C
Henry's law constant	0.000016 atm m ³ /mol @ °C
Surface tension	65 mN/m @ °C

hydrochloric acid ...%

Mobility	The product is soluble in water.
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C9-C11 Alcohol ethoxylate (6)

Mobility	The product is soluble in water.
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hydrofluoric acid ... %

Mobility	The product is soluble in water.
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Other adverse effects

Other adverse effects	None known.
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SECTION 13: Disposal considerations

Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
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Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
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SECTION 14: Transport information

General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.
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UN number

UN No. (ADG)	2922
UN No. (IMDG)	2922
UN No. (ICAO)	2922

UN proper shipping name

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Proper shipping name (ADG) CORROSIVE LIQUID, TOXIC, N.O.S. (CONTAINS PHOSPHORIC ACID, HYDROFLUORIC ACID)

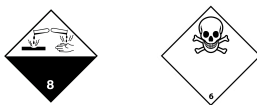
Proper shipping name (IMDG) CORROSIVE LIQUID, TOXIC, N.O.S. (CONTAINS PHOSPHORIC ACID, HYDROFLUORIC ACID)

Proper shipping name (ICAO) CORROSIVE LIQUID, TOXIC, N.O.S. (CONTAINS PHOSPHORIC ACID, HYDROFLUORIC ACID)

Transport hazard class(es)

ADG class	8
ADG subsidiary risk	6.1
ADG classification code	CT1
ADG label	8
IMDG class	8
IMDG subsidiary risk	6.1
ICAO class/division	8
ICAO subsidiary risk	6.1

Transport labels



Packing group

ADG packing group	III
IMDG packing group	III
ICAO packing group	III

Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

IMDG Code segregation group 1. Acids

EmS F-A, S-B

Hazchem Code 2X

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

Guidance Workplace Exposure Limits EH40.

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Schedule (SUSMP) Schedule 7. Dangerous Poison.

Inventories

Australia - AICS

All the ingredients are listed or exempt.

SECTION 16: Any other relevant information

Abbreviations and acronyms used in the safety data sheet ADG: Australian dangerous goods code

IATA: International air transport association.
 ICAO: Technical instructions for the safe transport of dangerous goods by air.
 IMDG: International maritime dangerous goods.
 CAS: Chemical abstracts service.
 ATE: Acute toxicity estimate.
 LC₅₀: Lethal concentration to 50 % of a test population.
 LD₅₀: Lethal dose to 50% of a test population (median lethal dose).
 EC₅₀: 50% of maximal effective concentration.
 PBT: Persistent, bioaccumulative and toxic substance.
 vPvB: Very persistent and very bioaccumulative.

Classification abbreviations and acronyms Met. Corr. = Corrosive to metals
 Acute Tox. = Acute toxicity
 Eye Dam. = Serious eye damage
 Skin Irrit. = Skin irritation

General information Only trained personnel should use this material.

Training advice Read and follow manufacturer's recommendations. Only trained personnel should use this material.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

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Revision date 24/05/2021

Revision 4

Supersedes date 14/12/2016

SDS No. 21355

SDS status Approved.

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Hazard statements in full

H290 May be corrosive to metals.
H300 Fatal if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.