



MATERIAL SAFETY DATA SHEET
Ali Red

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

1.1. Product identifier

Product Name Ali Red
Proper Shipping Name CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID)

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

Application: Car maintenance product. - Wheel Cleaner
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.

1.3. Details of the supplier of the safety data sheet

Supplier Autosmart Australia
11 Darrambal Close
Rathmines
NSW 2283
Australia
www.autosmartinternational.com
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

1.4. Emergency telephone number

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)

SECTION 2: HAZARDS IDENTIFICATION

Risk Phrases

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.

Safety Phrases

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51 Use only in well-ventilated areas.

2.1. Classification of the substance or mixture

Human health
Corrosive to skin and eyes.

2.2. Label elements

Contains PHOSPHORIC ACID 17.7503%
HYDROFLUORIC ACID 0.9893%

Detergent Labelling:
15 - < 30% phosphates
< 5% non-ionic surfactants

Labelling

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Corrosive



Harmful

Risk Phrases

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R37	Irritating to respiratory system.

Safety Phrases

S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51	Use only in well-ventilated areas.

2.3. Other hazards

This product does not contain any PBT or vPvB Substances.

Statement Of Hazardous Nature

HAZARDOUS SUBSTANCE (According to criteria of NOHSC). DANGEROUS GOODS (According to ADG Code).

ADR Class	Class 8: Corrosive substances.
ADR Pack Group	III
UN No. Road	1760
Emergency Action Code	2X

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

PHOSPHORIC ACID ...%		15-20%
CAS-No.: 7664-38-2	EC No.: 231-633-2	Registration Number: 01-2119485924-24
Classification (EC 1272/2008) Skin Corr. 1B - H314	Classification (67/548) C;R34	
2-BUTOXYETHANOL		5-10%
CAS-No.: 111-76-2	EC No.: 203-905-0	Registration Number: 01-2119475108-36-xxxx
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548) Xn;R20/21/22 Xi;R36/38	
HYDROCHLORIC ACID ...%		2-5%
CAS-No.: 7647-01-0	EC No.: 231-595-7	Registration Number: 01-2119484862-27-xxxx
Classification (EC 1272/2008) Met. Corr. 1 - H290 Skin Corr. 1B - H314 STOT SE 3 - H335	Classification (67/548) C;R34 Xi;R37	

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C9-C11 Alcohol ethoxylate (6)		1-2%
CAS-No.: 68439-46-3	EC No.:	Registration Number: Polymer
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548) Xn;R22. Xi;R41.	
HYDROFLUORIC ACID ...%		0.7-1.0%
CAS-No.: 7664-39-3	EC No.: 231-634-8	Registration Number: 01-2119458860-33-xxxx
Classification (EC 1272/2008) Acute Tox. 2 - H300 Acute Tox. 1 - H310 Acute Tox. 2 - H330 Skin Corr. 1A - H314	Classification (67/548) T+;R26/27/28 C;R35	

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

Susdp First Aid Instructions

For advice, contact a Poisons Information Centre (Phone 13 1126) or a doctor.

If swallowed, do NOT induce vomiting.

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

If skin contact occurs, immediately remove contaminated clothing. Flush skin under running water for 15 minutes. Then apply calcium gluconate gel. Contact the Poisons Information Centre.

4.1. Description of first aid measures

General information

In case of accidents: Call an ambulance immediately! Seek medical attention for all burns, regardless how minor they may seem. NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately!

Skin contact

Remove contaminated clothing. Rinse immediately with plenty of water. Apply Calcium Gluconate Gel over the affected areas. Get medical attention immediately.

Eye contact

Get medical attention immediately. Continue to rinse. Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Medical aid should instil several drops of sterile calcium gluconate solution.

4.2. Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure. NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

Coughing, chest tightness, feeling of chest pressure. Irritation of nose, throat and airway.

Ingestion

Chemical burns.

Skin contact

Chemical burns.

Eye contact

May cause blurred vision and serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

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SPECIFIC NOTES FOR FLUORIDE DERIVATIVES: If calcium gluconate gel is available, rub it into affected skin. Massage continuously until pain disappears. DO NOT use this method for treatment of eyes. If ingested give milk or calcium gluconate by mouth.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media****Extinguishing media**

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture**Hazardous Combustion Products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

Asphyxiating gases/vapours/fumes of: Toxic gases/vapours/fumes of Hydrogen fluoride (HF).

5.3. Advice for firefighters**Special Fire Fighting Procedures**

Keep up-wind to avoid fumes. Use supplied air respirator if product is involved in a fire.

Protective equipment for fire-fighters

Wear full protective clothing. Severe corrosive hazard. Wear chemical protection suits.

Emergency Action Code 2X

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

For personal protection, see section 8.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses. To prevent release, place container with damaged side up. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

DO NOT TOUCH SPILLED MATERIAL! Clean-up personnel should use respiratory and/or liquid contact protection. Neutralize small amounts with sodium bicarbonate or lime and flush to sewer with large amounts of water. Large spills, dilute, then neutralize with caustic solution. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Ventilate well. Flush area with plenty of water. Flush to sewer if local regulations permit.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Eye wash facilities and emergency shower must be available when handling this product. Provide good ventilation. Antidote must be found in place of work.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Keep above the chemical's freezing point to avoid rupturing the container.

Storage Class

Corrosive storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

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Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
2-BUTOXYETHANOL	NOHSC	20 ppm	96,9 mg/m ³	50 ppm	242 mg/m ³	Sk
HYDROCHLORIC ACID ...%	NOHSC			5 ppm	7,5 mg/m ³	Peak limitation
HYDROFLUORIC ACID ...%	NOHSC			3 ppm	2,6 mg/m ³	Peak limitation, As F
PHOSPHORIC ACID ...%	NOHSC		1 mg/m ³		3 mg/m ³	

NOHSC = The National Occupational Health and Safety Commission.

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

PHOSPHORIC ACID ...% (CAS: 7664-38-2)**DNEL**

Consumer	Inhalation.	Long Term	Local Effects	0.73 mg/m ³
Professional	Inhalation.	Long Term	Local Effects	2.92 mg/m ³

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)**DNEL**

Industry	Inhalation.	Short Term	Local Effects	15 mg/m ³
	Inhalation.	Long Term	Local Effects	8 mg/m ³

PNEC

Freshwater	0.036	mg/l
Intermittent release	0.045	mg/l
Marinewater	0.036	mg/l
STP	0.036	mg/l

2-BUTOXYETHANOL (CAS: 111-76-2)**DNEL**

Industry	Dermal	Short Term	89	mg/kg/day
Industry	Inhalation.	Short Term	246	mg/m ³
Industry	Dermal	Long Term	75	mg/kg/day
Industry	Inhalation.	Long Term	98	mg/m ³
Consumer	Dermal	Short Term	44.5	mg/kg/day
Consumer	Inhalation.	Short Term	123	mg/m ³
Consumer	Oral	Short Term	13.4	mg/kg/day
Consumer	Dermal	Long Term	38	mg/kg/day
Consumer	Inhalation.	Long Term	49	mg/m ³

PNEC

Freshwater	8.8	mg/l
Marinewater	0.88	mg/l
Sediment (Freshwater)	8.14	mg/kg
Soil	2.8	mg/kg
STP	463	mg/l

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

No exposure limits noted for ingredient(s).

8.2. Exposure controls**Protective equipment****Process Conditions**

Provide eyewash, quick drench.

Engineering measures

Must not be handled in confined space without sufficient ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Wear mask supplied with: Gas cartridge (acid gases).

Hand protection

Use protective gloves made of: Neoprene. or Nitrile gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Use safety goggles and face shield in case of splash risk.

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Other Protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear rubber footwear. Provide eyewash station. Ensure calcium gluconate antidote gel is available.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Red.
Odour	Acidic.
Solubility	Soluble in water. Miscible with water
Boiling Point (°C)	~ 100 760 mm Hg
Melting point (°C)	~ 0
Relative density	~ 1.047 (20°C)
Vapour density (air=1)	Not applicable.
Vapour pressure	Not applicable.
Evaporation rate	Not available.
pH-Value, Conc. Solution	~ 1
Viscosity	~ 1 cSt @ 20°C
Decomposition temperature (°C)	Not available.
Odour Threshold, Lower	Not available.
Odour Threshold, Upper	Not available.
Flash point (°C)	Not applicable.
Auto Ignition Temperature (°C)	Not applicable.
Flammability Limit - Lower(%)	Not applicable.
Flammability Limit - Upper(%)	Not applicable.
Partition Coefficient (N-Octanol/Water)	Not available.
Oxidising properties	Not applicable.
Other Information	Information declared as "Not available" or "Not applicable" is not considered to be justified for enabling proper control measures to be taken.

9.2. Other information

Volatile Organic Compound (VOC) 76 g/litre

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reaction with: Alkalis. Oxidising materials. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

10.2. Chemical stability

Stable under normal temperature conditions. Avoid Contact with peroxides. Contact with alkalis.

10.3. Possibility of hazardous reactions

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Hazardous Polymerisation

May polymerise.

Polymerisation Description

Avoid alkalis, strong acids and heat.

10.4. Conditions to avoid

Avoid contact with: Strong alkalis. Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

Strong acids. Strong alkalis. Strong oxidising substances. Massive, solid metal. Other metals or alloys.

10.6. Hazardous decomposition products

When heated, toxic and corrosive vapours/gases may be formed. Fire or high temperatures create: Vapours/gases/fumes of: Hydrogen fluoride (HF).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Other Health Effects

This substance has no evidence of carcinogenic properties. NTP Not Listed. IARC Not Listed.

Inhalation

Harmful by inhalation. Irritating to respiratory system. Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion

Harmful: possible risk of irreversible effects if swallowed. Swallowing concentrated chemical may cause severe internal injury. May cause burns in mucous membranes, throat, oesophagus and stomach.

Skin contact

Harmful in contact with skin. May be absorbed through the skin. Effect may be delayed.

Eye contact

Risk of serious damage to eyes. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

Health Warnings

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

Route of entry

Skin and/or eye contact. Inhalation. Ingestion.

Medical Symptoms

Severe skin irritation. Severe pulmonary 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:

HYDROFLUORIC ACID ...% (CAS: 7664-39-3)

Toxicological information

This material is toxic.

Other Health Effects

This substance has no evidence of carcinogenic properties.

Ali Red**PHOSPHORIC ACID ...% (CAS: 7664-38-2)****Other Health Effects**

This substance has no evidence of carcinogenic properties.

Acute toxicity:**Acute Toxicity (Oral LD50)**

3500 mg/kg Rat

Acute Toxicity (Dermal LD50)

1689 mg/kg

Respiratory or Skin Sensitisation

Not Sensitising.

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)**Other Health Effects**

This substance has no evidence of carcinogenic properties.

Acute toxicity:**Acute Toxicity (Oral LD50)**

1449 mg/kg Mouse

Acute Toxicity (Dermal LD50)

> 5010 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

1.66 mg/l (vapours) Mouse 1 hour

Respiratory or Skin Sensitisation**Skin Sensitisation**

Guinea pig maximization test. Guinea Pig

Not Sensitising.

Ali Red**2-BUTOXYETHANOL (CAS: 111-76-2)****Other Health Effects**

ACGIH Carcinogen List. Carcinogen Category 3.

Acute toxicity:**Acute Toxicity (Oral LD50)**

1300 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

Acute Toxicity (Inhalation LC50)

2.2 mg/l (vapours) Rat 4 hours

Respiratory or Skin Sensitisation**Respiratory Sensitisation**

Not available.

Skin Sensitisation

Guinea pig maximization test. Guinea Pig

Not Sensitising.

Germ Cell Mutagenicity**Genotoxicity - In Vitro**

Gene Mutation.

Negative.

This substance has no evidence of mutagenic properties.

Reproductive Toxicity:**Reproductive Toxicity - Fertility**

Fertility NOAEL 720 mg/kg Mouse

Reproductive Toxicity - Development

Developmental toxicity NOAEL 100 mg/kg Rat

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)**Toxic Dose 1 - LD 50**

2000 mg/kg (oral rat)

Toxic Conc. - LC 50

5 mg/l/4h (inh-rat)

Other Health Effects

This substance has no evidence of carcinogenic properties.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

Dangerous for the environment if discharged into watercourses. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecological Information on Ingredients:**HYDROFLUORIC ACID ...% (CAS: 7664-39-3)****Ecotoxicity**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

PHOSPHORIC ACID ...% (CAS: 7664-38-2)**Ecotoxicity**

The product may contribute to an excessive enrichment of the aquatic environment with nutrients. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)**Ecotoxicity**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

2-BUTOXYETHANOL (CAS: 111-76-2)**Ecotoxicity**

Not regarded as dangerous for the environment.

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12.1. 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:**HYDROFLUORIC ACID ...% (CAS: 7664-39-3)****Acute Toxicity Aquatic Invertebrates**

EC50 48 hours ~ 10.6 mg/l Daphnia magna

PHOSPHORIC ACID ...% (CAS: 7664-38-2)**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

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)**LC 50, 96 Hrs, Fish mg/l**

4-100

Acute Toxicity - Fish

LC50 96 hours ~ 7.45 mg/l Onchorhynchus mykiss (Rainbow trout)

LC50 96 hours ~ 24.6 mg/l Lepomis macrochirus (Bluegill)

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

2-BUTOXYETHANOL (CAS: 111-76-2)**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 Toxicity - Fish Early Life Stage

NOEC 21 days > 100 mg/l

Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days 100 mg/l Daphnia magna

C9-C11 Alcohol ethoxylate (6) (CAS: 68439-46-3)**LC 50, 96 Hrs, Fish mg/l**

10

EC 50, 48 Hrs, Daphnia, mg/l

10

IC 50, 72 Hrs, Algae, mg/l

10

12.2. Persistence and degradability

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Degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. The product is biodegradable, but it must not be discharged into drains without permission from the authorities. Volatile substances are degraded in the atmosphere within a few days.

Ecological Information on Ingredients:

HYDROFLUORIC ACID ...% (CAS: 7664-39-3)

Degradability

The product is biodegradable.

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

Degradability

This product mainly consists of inorganic compounds which are not biodegradable. The remaining compounds of the product are expected to be easily biodegradable.

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)

Degradability

The product is biodegradable.

2-BUTOXYETHANOL (CAS: 111-76-2)

Degradability

The product is biodegradable.

Biodegradation

Water % Degradation 90.4 28 days

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

Degradability

The product is biodegradable. This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Bioaccumulative potential

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

Partition coefficient

Not available.

Ecological Information on Ingredients:

HYDROFLUORIC ACID ...% (CAS: 7664-39-3)

Bioaccumulative potential

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

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

Bioaccumulative potential

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

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)

Bioaccumulative potential

The product is not bioaccumulating.

2-BUTOXYETHANOL (CAS: 111-76-2)

Bioaccumulative potential

The product is not bioaccumulating.

Partition coefficient

0.81

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

Bioaccumulative potential

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

12.4. Mobility in soil

Mobility:

The product is soluble in water. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

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Ecological Information on Ingredients:**HYDROFLUORIC ACID ...% (CAS: 7664-39-3)****Mobility:**

The product is soluble in water.

PHOSPHORIC ACID ...% (CAS: 7664-38-2)**Mobility:**

The product is soluble in water.

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)**Mobility:**

The product is soluble in water.

2-BUTOXYETHANOL (CAS: 111-76-2)**Mobility:**

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

Adsorption/Desorption Coefficient

Soil Koc ~ 67

Henry's Law Constant

0.000016 atm m³/mol

Surface Tension

65 mN/m

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

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Ecological Information on Ingredients:**HYDROFLUORIC ACID ...% (CAS: 7664-39-3)**

Not Classified as PBT/vPvB by current EU criteria.

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

This product does not contain any PBT or vPvB Substances.

HYDROCHLORIC ACID ...% (CAS: 7647-01-0)

Not Classified as PBT/vPvB by current EU criteria.

2-BUTOXYETHANOL (CAS: 111-76-2)

Not Classified as PBT/vPvB by current EU criteria.

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

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS**General information**

When handling waste, consideration should be made to the safety precautions applying to handling of the product. The packaging must be empty (drop-free, when inverted).

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.

SECTION 14: TRANSPORT INFORMATION**14.1. UN number**

UN No. Road	1760
UN No. Sea	1760
UN No., Air	1760

14.2. UN proper shipping name

Proper Shipping Name CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID)

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14.3. Transport hazard class(es)

ADR Class No.	8
ADR Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class	8
Transport Labels	

**14.4. Packing group**

ADR Pack Group	III
IMDG Pack Gr.	III
Air Pack Gr.	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

Segregation Group	1. Acids.
EMS	F-A, S-B
Emergency Action Code	2X
Tunnel Restriction Code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

Poisons Schedule Number 6.

National Regulations And References

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). National Code of Practice for the Preparation of Material Safety Data Sheets. Approved Criteria for Classifying Hazardous Substances. Exposure Standards for Atmospheric Contaminants in the Occupational Environment. Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment. National Code of Practice for the Labelling of Workplace Substances. National Model Regulations for the Control of Workplace Hazardous Substances. National Code of Practice for the Control of Workplace Hazardous Substances. National Standard for the Storage and Handling of Workplace Dangerous Goods. National Code of Practice for the Storage and Handling of Workplace Dangerous Goods. Guidance Note for Placarding Stores for Dangerous Goods and Specified Hazardous Substances. Guidance Note for the Assessment of Health Risks Arising from Hazardous Substances in the Workplace. National Standard for the Control of Major Hazard Facilities. National Code of Practice for the Control of Major Hazard Facilities.

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

Ali Red

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Health And Environmental Listings

Regulation EC 689/2008 concerning the export and import of dangerous chemicals.

Water hazard classification

WGK 2

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

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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Risk Phrases In Full

R34	Causes burns.
R35	Causes severe burns.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.

Hazard Statements In Full

H290	May be corrosive to metals.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal 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.

Disclaimer

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.