



## SAFETY DATA SHEET

### Ali Shine

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** Ali Shine  
**Product number** 143-14

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

**Identified uses** 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 International Ltd  
 Lynn Lane,  
 Shenstone, nr Lichfield  
 Staffordshire. WS14 0DH  
 England  
 www.autosmartinternational.com  
 Tel: +44 (0) 1543 481616 (09:00 - 17:00)  
 Fax: +44 (0) 1543 481549 (09:00 - 17:00)  
 info@autosmartinternational.com

**Contact person** Mr. Russell Butler

##### 1.4. Emergency telephone number

**Emergency telephone** Mob: +44 (0) 7808 971321 (24hrs)  
 Tel: +44 (0) 1543 481616 (09:00 - 17:00)  
 Fax: +44 (0) 1543 481549 (09:00 - 17:00)

If you urgently need medical help or advice but it's not a life-threatening situation, call 111 free from any phone to speak to an NHS adviser. The 24-hour NHS 111 service can give you healthcare advice or direct you to the local service that can help you best.

The NHS 111 service will also be available via the harmonised European number for medical advice 116 117

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Met. Corr. 1 - H290  
**Health hazards** Skin Corr. 1C - H314 Eye Dam. 1 - H318  
**Environmental hazards** Not Classified

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**Classification (67/548/EEC or 1999/45/EC)** Xi;R36/38.

**Environmental** Keep out of water ways.

### 2.2. Label elements

#### Pictogram



**Signal word** Danger

**Hazard statements** H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

**Precautionary statements** P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P260 Do not breathe vapour/ spray.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/ container in accordance with national regulations.

**Contains** HYDROCHLORIC ACID ...%, C9-C11 Alcohol ethoxylate (6), Amines, C12-14 - alkydimethyl, N-oxides.

**Detergent labelling** < 5% amphoteric surfactants, < 5% non-ionic surfactants

**Supplementary precautionary statements** P264 Wash contaminated skin thoroughly after handling.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P332+P313 If skin irritation occurs: Get medical advice/ attention.  
P390 Absorb spillage to prevent material damage.  
P406 Store in a corrosion-resistant/... container with a resistant inner liner.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>HYDROCHLORIC ACID ...%</b>	<b>5&lt;10%</b>
CAS number: 7647-01-0	EC number: 231-595-7
	REACH registration number: 01-2119484862-27-xxxx
Substance with a Community workplace exposure limit.	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Met. Corr. 1 - H290	C;R34 Xi;R37
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	

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<b>C9-C11 Alcohol ethoxylate (6)</b>		<b>2&lt;3%</b>
CAS number: 68439-46-3		REACH registration number: Polymer
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R22. Xi;R41.	
<b>1-PROPOXY-2-PROPANOL</b>		<b>1&lt;2%</b>
CAS number: 1569-01-3		EC number: 216-372-4
		REACH registration number: 01-2119474443-37-xxxx
<b>Classification</b> Flam. Liq. 3 - H226 Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> R10.	
<b>Amines, C12-14 - alkydimethyl, N-oxides.</b>		<b>1&lt;2%</b>
CAS number: 308062-28-4		EC number: 931-292-6
		REACH registration number: 01-2119490061-47-xxxx
M factor (Acute) = 1		
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R22. Xi;R38,R41. N;R50.	

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.
<b>Inhalation</b>	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.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. 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.
<b>Skin contact</b>	It is important to remove the substance from the skin immediately. Take off immediately all contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician.

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<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. 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.
<b><u>4.2. Most important symptoms and effects, both acute and delayed</u></b>	
<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	A single exposure may cause the following adverse effects: Severe irritation of nose and throat. Symptoms following overexposure may include the following: Corrosive to the respiratory tract.
<b>Ingestion</b>	May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.
<b>Skin contact</b>	Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
<b>Eye contact</b>	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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

**Notes for the doctor**                      Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	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.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up. Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours.

### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. 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. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
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**Special protective equipment for firefighters** Regular protection may not be safe. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

#### 6.1. 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 vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes. Avoid contact with contaminated tools and objects.

#### 6.2. Environmental precautions

**Environmental precautions** The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

#### 6.3. 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. Clear up spills immediately and dispose of waste safely. This product is corrosive. Approach the spillage from upwind. Small Spillages: 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. 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.

#### 6.4. 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.

### SECTION 7: Handling and storage

#### 7.1. 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 corrosive. 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.

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### Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. 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.

### 7.2. 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. 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

Corrosive storage.

### 7.3. Specific end use(s)

#### 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

#### Occupational exposure limits

#### **HYDROCHLORIC ACID ...%**

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m<sup>3</sup> gas and aerosol mists

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m<sup>3</sup> gas and aerosol mists

WEL = Workplace Exposure Limit

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

<b>DNEL</b>	Industry - Inhalation; Short term local effects: 15 mg/m <sup>3</sup> - Inhalation; Long term local effects: 8 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 0.036 mg/l - Intermittent release; 0.045 mg/l - Marine water; 0.036 mg/l - STP; 0.036 mg/l

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

**Ingredient comments** No exposure limits known for ingredient(s).

#### 1-PROPOXY-2-PROPANOL (CAS: 1569-01-3)

**Ingredient comments** No exposure limits known for ingredient(s).

#### Amines, C12-14 - alkydimethyl, N-oxides. (CAS: 308062-28-4)

**Ingredient comments** No exposure limits known for ingredient(s).

<b>DNEL</b>	Workers - Dermal; Long term systemic effects: 11 mg/kg/day Workers - Inhalation; Long term systemic effects: 15.5 mg/m <sup>3</sup> Workers - Dermal; Long term local effects: 0.27 % General population - Dermal; Long term systemic effects: 5.5 mg/kg/day General population - Inhalation; Long term systemic effects: 3.8 mg/m <sup>3</sup> General population - Oral; Long term systemic effects: 0.44 mg/kg/day
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### PNEC

- Fresh water; 0.0335 mg/l
- Marine water; 0.00335 mg/l
- Intermittent release; 0.0335 mg/l
- Sediment (Freshwater); 5.24 mg/kg
- Sediment (Marinewater); 0.524 mg/kg
- Soil; 1.02 mg/kg
- STP; 24 mg/kg

### 8.2. Exposure controls

#### 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 European Standard EN166. 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. To protect hands from chemicals, gloves should comply with European Standard EN374. 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.

#### 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 is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

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<b>Environmental exposure controls</b>	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

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid. Liquid.
<b>Colour</b>	Red.
<b>Odour</b>	Acidic.
<b>Odour threshold</b>	Not applicable. Not applicable.
<b>pH</b>	pH (concentrated solution): ~ 1.0 pH (diluted solution): ~ 1.4 @ 1%
<b>Melting point</b>	~ 0°C
<b>Initial boiling point and range</b>	~ 100°C @ 760 mm Hg
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	~ 1.050 @ (20°C)°C
<b>Solubility(ies)</b>	Soluble in water. Miscible with water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	Not applicable.
<b>Viscosity</b>	Not available. @ °C
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.
<b>Comments</b>	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

#### 9.2. Other information

<b>Volatile organic compound</b>	This product contains a maximum VOC content of 16 g/litre.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	May be corrosive to metals.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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#### 10.3. Possibility of hazardous reactions

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**Possibility of hazardous reactions** No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

**Materials to avoid** Alkalis. Amines. Mild steel. Stainless steel. Aluminium. May be corrosive to metals.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Corrosive gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 17,422.06

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Animal data** Skin Corr. 1C - H314 Causes severe burns.

**Extreme pH** ≤ 2 Corrosive.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Eye Dam. 1 - H318 Corrosive to skin. Corrosivity to eyes is assumed.

#### 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.

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### Specific target organ toxicity - repeated exposure

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

### 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**

Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.

### **Eye contact**

Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

### **Acute and chronic health hazards**

No specific long-term effects known. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Coughing. Irritation of nose, throat and airway. Sore throat.

### **Route of exposure**

Ingestion Inhalation Skin and/or eye contact

### **Target organs**

No specific target organs known.

### **Medical symptoms**

No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals. Irritation, burning, lachrymation, blurred vision after liquid splash. SKIN. Skin irritation.

### **Medical considerations**

Splash in eye requires examination by eye specialist.

### Toxicological information on ingredients.

#### HYDROCHLORIC ACID ...%

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,449.0

**Species** Mouse

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 5,010.0

**Species** Rabbit

#### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

#### Carcinogenicity

**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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### 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.

#### HYDROCHLORIC ACID ...%

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

#### 12.1. Toxicity

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

#### Acute aquatic toxicity

**Acute toxicity - fish**                      Not determined.  
LC<sub>50</sub>, 96 hours: mg/l, Fish

**Acute toxicity - aquatic invertebrates**                      Not determined.  
EC<sub>50</sub>, 48 hours: mg/l, Daphnia magna

**Acute toxicity - aquatic plants**                      Not determined.

**Acute toxicity - microorganisms**                      Not determined.

**Acute toxicity - terrestrial**                      Not determined.

#### Ecological information on ingredients.

#### HYDROCHLORIC ACID ...%

#### Acute aquatic toxicity

**Acute toxicity - fish**                      LC<sub>50</sub>, 96 hours: ~ 7.45 mg/l, Oncorhynchus mykiss (Rainbow trout)  
LC<sub>50</sub>, 96 hours: ~ 24.6 mg/l, Lepomis macrochirus (Bluegill)  
LC<sub>50</sub>, 96 hours: 4-100 mg/l, Fish

**Acute toxicity - aquatic invertebrates**                      EC<sub>50</sub>, 48 hours: ~ 0.492 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**                      EC<sub>50</sub>, 72 hours: ~ 0.78 mg/l, Selenastrum capricornutum

#### C9-C11 Alcohol ethoxylate (6)

#### Acute aquatic toxicity

**Acute toxicity - fish**                      LC<sub>50</sub>, 96 hours: 10 mg/l, Fish

**Acute toxicity - aquatic invertebrates**                      EC<sub>50</sub>, 48 hours: 10 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**                      IC<sub>50</sub>, 72 hours: 10 mg/l, Algae

#### 12.2. Persistence and degradability

**Persistence and degradability**                      The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

#### Ecological information on ingredients.

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### 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. 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** No data available on bioaccumulation.

**Partition coefficient** Not available.

### Ecological information on ingredients.

### 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.

### 12.4. Mobility in soil

**Mobility** The product is water-soluble and may spread in water systems. The product is non-volatile.

### Ecological information on ingredients.

### HYDROCHLORIC ACID ...%

**Mobility** The product is soluble in water.

### C9-C11 Alcohol ethoxylate (6)

**Mobility** The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

### HYDROCHLORIC ACID ...%

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### C9-C11 Alcohol ethoxylate (6)

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

## Ali Shine

**Other adverse effects**                      None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>General information</b>	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.
<b>Disposal methods</b>	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.
<b>Waste class</b>	The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

### SECTION 14: Transport information

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

#### 14.1. UN number

<b>UN No. (ADR/RID)</b>	1789
<b>UN No. (IMDG)</b>	1789
<b>UN No. (ICAO)</b>	1789

#### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	HYDROCHLORIC ACID
<b>Proper shipping name (IMDG)</b>	HYDROCHLORIC ACID
<b>Proper shipping name (ICAO)</b>	HYDROCHLORIC ACID
<b>Proper shipping name (ADN)</b>	HYDROCHLORIC ACID

#### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	8
<b>ADR/RID label</b>	8
<b>IMDG class</b>	8
<b>ICAO class/division</b>	8

#### **Transport labels**



#### 14.4. Packing group

<b>ADR/RID packing group</b>	III
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IMDG packing group III

ICAO packing group III

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. 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

Emergency Action Code 2R

Hazard Identification Number (ADR/RID) 80

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

Annex II of MARPOL 73/78 and the IBC Code

## SECTION 15: Regulatory information

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

<b>National regulations</b>	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
<b>EU legislation</b>	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) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. 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 (as amended). Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.
<b>Health and environmental listings</b>	Regulation (EC) 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### Inventories

#### EU - EINECS/ELINCS

All the ingredients are listed or exempt.

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### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>CAS: Chemical Abstracts Service.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Met. Corr. = Corrosive to metals</p> <p>Eye Dam. = Serious eye damage</p> <p>Skin Corr. = Skin corrosion</p>
<b>General information</b>	<p>Only trained personnel should use this material. This product has been manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems.</p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Eye Dam. 1 - H318: Skin Corr. 1C - H314: : Calculation method. Met. Corr. 1 - H290: : Expert judgement.</p>
<b>Training advice</b>	<p>Read and follow manufacturer's recommendations. Only trained personnel should use this material.</p>
<b>Revision comments</b>	<p>NOTE: Lines within the margin indicate significant changes from the previous revision.</p>
<b>Revision date</b>	23/05/2018
<b>Revision</b>	9
<b>Supersedes date</b>	23/10/2014
<b>SDS number</b>	10490
<b>SDS status</b>	Approved.
<b>Risk phrases in full</b>	<p>R22 Harmful if swallowed.</p> <p>R34 Causes burns.</p> <p>R36/38 Irritating to eyes and skin.</p> <p>R37 Irritating to respiratory system.</p> <p>R38 Irritating to skin.</p> <p>R41 Risk of serious damage to eyes.</p> <p>R50 Very toxic to aquatic organisms.</p>

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### Hazard statements in full

H226 Flammable liquid and vapour.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

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.