SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

ALLOY WHEEL CLEANER (HYDROCHLORIC ACID)

Revision 15

Revision date 2015-09-04

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

1.1. Product identifier

Product name	ALLOY WHEEL CLEANER (HYDROCHLORIC ACID)

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

Description	Washing and cleaning products (including solvent based products).

1.3. Details of the supplier of the safety data sheet

Company	Frogchem Ltd
Address	Unit 3-9 Venture Park Fareham Road Gosport Hants. PO13 0BA
Web	www.frogchem.com
Telephone	01372 377400
Fax	01372 373939
Email	wash@frogchem.com
Email address of the competent person	wash@frogchem.com

1.4. Emergency telephone number

Emergency telephone number	01372 377400 9.00am - 5.00pm Mon - Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	C; R34 Xi; R37 Symbols: C: Corrosive.
Main hazards	Causes burns. Irritating to respiratory system.
2.1.2. Classification - EC 1272/2008	Skin Corr. 1A: H314; STOT SE 3: H335;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation. H290 - May be corrosive to metals.
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

ALLOY WHEEL CLEANER (HYDROCHLORIC ACID)

2.2. Label elements

Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311 - IF exposed or concerned: Call a POISON CENTER/doctor/ .

2.3. Other hazards

Other hazards	No data is available on this product.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Hydrochloric acid…%	017-002-01-X		231-595-7			C; R34 Xi; R37	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Hydrochloric acid…%	017-002-01-X		231-595-7			Skin Corr. 1B: H314; STOT SE 3: H335;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If unconscious, check for breathing and apply artificial respiration if necessary.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove contaminated clothing.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. DO NOT INDUCE VOMITING.

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

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact	Causes burns.
Skin contact	Causes burns.
Ingestion	Causes burns.

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

Inhalation	Mist or vapour will cause irritation to the upper respiratory tract,coughing and choking sensation.Concentrations of 50-100ppm are barely tolerated for up to 1 hour.Higher concentrations may cause corrosion of the repiratory tract. If you feel unwell, seek medical advice (show the label where possible).
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

ALLOY WHEEL CLEANER (HYDROCHLORIC ACID)

5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

	Wear self contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Avoid contact with skin and eyes.

6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

	Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

	See section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION for further information. See section 13. DISPOSAL CONSIDERATIONS for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

	Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Store in correctly labelled containers.

7.3. Specific end use(s)

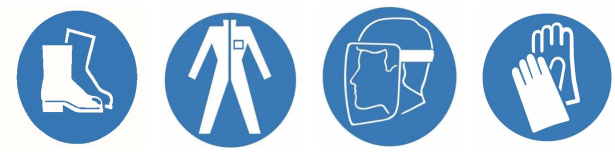
	See section 1.2. Relevant identified uses of the substance or mixture and uses advised against for further information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	Occupational exposure controls.

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear protective clothing.
Eye / face protection	Face shield.
Skin protection - Handprotection	Neoprene gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	Wear suitable respiratory equipment when necessary.
Occupational exposure controls	Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

ALLOY WHEEL CLEANER (HYDROCHLORIC ACID)

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber
Odour	Strong
Odour threshold	No data available
pH	< 2
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.175 - 1.185 (H2O = 1 @ 20 °C)
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Strong oxidising agents. Alkalis.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Attacks most common metals liberating hydrogen,which can form explosive mixtures with air. Can react violently if in contact with oxidising agents,liberating chlorine. Exothermic reaction with alkalis.

10.4. Conditions to avoid

Skin contact.

10.5. Incompatible materials

Attacks many metals.

10.6. Hazardous decomposition products

Hydrogen chloride. Chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	Causes burns.

ALLOY WHEEL CLEANER (HYDROCHLORIC ACID)

11.1. Information on toxicological effects

Serious eye damage/irritation	Causes burns.
Respiratory or skin sensitisation	Hydrochloric acid vapour/mist will cause severe irritation to the upper respiratory tract. Hydrochloric acid is not a skin sensitiser.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No observed effect level.
STOT-single exposure	Mist or vapour will cause irritation or corrosion to the upper respiratory tract,coughing and a choking sensation.
Repeated or prolonged exposure	Repeated exposure to hydrochloric acid causes local corrosion or irritancy of the gastro intestinal tract,skin,eyes or respiratory tract but will have no effect on systemic toxicity.repeated exposure may also cause errosion of the teeth and ulceration of the nasal septum and gums.

SECTION 12: Ecological information

12.1. Toxicity

Hydrochloric acid…%	**Daphnia EC50/48h:** 0.4500 mg/l **Algae EC50/72h:** 0.73	**Fish LC50/96h:** 20.5000 mg/l

12.2. Persistence and degradability

Will freely disassociate to hydrogen and chloride ions.

12.3. Bioaccumulative potential

Does not bioaccumulate.

Partition coefficient

ALLOY WHEEL CLEANER (HYDROCHLORIC ACID)	No data available

12.4. Mobility in soil

The product is predicted to have high mobility in soil.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

No data is available on this product.

Further information

Large discharges may contribute to the acidification of water and be fatal to fish and other aquatic life.Can cause damage to aquatic plants. can cause damage to vegetation.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations. Do not release undiluted or unneutralised to the sewer.Do not landfill unneutralised waste.Disposal of the neutralised waste at a licensed landfill site may be permissible.

SECTION 14: Transport information

Hazard pictograms

14.1. UN number

ALLOY WHEEL CLEANER (HYDROCHLORIC ACID)

14.1. UN number

	UN1789

14.2. UN proper shipping name

	HYDROCHLORIC ACID

14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group	II

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

14.6. Special precautions for user

	No data is available on this product.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	No data is available on this product.

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B

IATA

Packing Instruction (Cargo)	855
Maximum quantity	30 L
Packing Instruction (Passenger)	851
Maximum quantity	1 L

SECTION 15: Regulatory information

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

Regulations	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. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.

15.2. Chemical safety assessment

	No data is available on this product.

ALLOY WHEEL CLEANER (HYDROCHLORIC ACID)

Revision 15
Revision date 2015-09-04

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:. 2 - Precautionary Statement: Response.
Text of risk phrases in Section 3	R34 - Causes burns. R37 - Irritating to respiratory system.
Text of Hazard Statements in Section 3	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.