

RFACT Safety Data Sheet

Date of issue: 31/08/2016 Revision date: 19/02/2016 Version: 10.1

REACT H018

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

Product identifier

Product form : Mixture Product name : REACT Product code : H018

Type of product : Technical product

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

Relevant identified uses 1.2.1

Main use category : Professional use

Industrial/Professional use spec : For professional use only : Acidic descaling toilet cleaner Use of the substance/mixture

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet

SELDEN RESEARCH LIMITED STADEN LANE, BUXTON, DERBYSHIRE, SK17 9RZ, UNITED KINGDOM

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1.4. **Emergency telephone number**

Mon to Fri 8.30am to 5.00pm - 01298 26226

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Inhalation:gas) H332 Skin Corr. 1A H314

Full text of hazard classes and H-statements: see section 16

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS05

GHS07

Signal word (CLP) : Danger

Hazardous ingredients : hydrogen chloride

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage

H332 - Harmful if inhaled

Precautionary statements (CLP) P264 - Wash hands thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area P280 - Wear eye protection, protective gloves

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

P315 - Get immediate medical advice/attention

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

3.2. **Mixture**

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrogen chloride	(CAS No) 7647-01-0 (EC no) 231-595-7 (EC index no) 017-002-00-2	5 - 15	Press. Gas Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314
PEG-2 OLEAMINE	(CAS No) 25307-17-9 (EC no) 246-807-3	1 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400
Quaternary ammonium compounds, tallow trimethyl, chlorides	(CAS No) 8030-78-2 (EC no) 232-447-4	<1	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it

before reuse.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Get

immediate medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Get medical advice/attention.

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

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Burns.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Corrosive vapours.

fire

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.

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Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong bases. Oxidizing agent.

Incompatible materials : Metals.

Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Materials for protective clothing : Not required for normal conditions of use

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Not required for normal conditions of use

Respiratory protection : Not required for normal conditions of use





SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Mobile liquid.
Colour : Blue.
Odour : characteristic.

Odour threshold : No data available

pH : 1

Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available : No data available **Boiling point** Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : 1.03

Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

No additional information available

Conditions to avoid

No additional information available

10.5. Incompatible materials

metals.

Hazardous decomposition products 10.6.

No additional information available

SECTION 11: Toxicological information

Information on toxicological effects

: Inhalation:gas: Harmful if inhaled. Acute toxicity

ATE CLP (gases) 7783.403 ppmv/4h

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 1

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 1

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

SECTION 12: Ecological information

Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. **Bioaccumulative potential**

No additional information available

Mobility in soil

No additional information available

Results of PBT and vPvB assessment 12.5.

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

UN number

UN-No. (ADR) : 1789 : 1789 UN-No. (IMDG)

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UN-No. (IATA) : 1789

14.2. UN proper shipping name

Proper Shipping Name (ADR) : HYDROCHLORIC ACID
Proper Shipping Name (IMDG) : HYDROCHLORIC ACID
Proper Shipping Name (IATA) : HYDROCHLORIC ACID

Transport document description (ADR) : UN 1789 HYDROCHLORIC ACID, 8, III, (E)
Transport document description (IMDG) : UN 1789 HYDROCHLORIC ACID, 8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C1
Special provisions (ADR) : 520
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T4

(ADR)

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Portable tank and bulk container special : TP1

provisions (ADR)

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage - Packages : V12

(ADR)

Hazard identification number (Kemler No.) : 80

Orange plates :

80 1789

Tunnel restriction code (ADR) : E EAC code : 2R

- Transport by sea

Special provisions (IMDG): 223Limited quantities (IMDG): 5 LExcepted quantities (IMDG): E1

Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : C

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y841 PCA limited quantity max net quantity (IATA) : 11 PCA packing instructions (IATA) : 852 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 856 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3 : 8L ERG code (IATA)

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

IBC code : Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4

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Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Press. Gas	Gases under pressure
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H332	Harmful if inhaled
H400	Very toxic to aquatic life

SDS EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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