

Safety Data Sheet

according to Regulation (EC) No. 453/2010 Date of issue: 15/06/2015 Revision date: 05/06/2015

Version: 10.0

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REACT

SELDEIN	e of Issue: 15/06/2015 Revision date: 05/06/2015	version: 10.0
REACT		H018
	substance/mixture and of the company/undertaking	
1.1. Product identifier	AP-dam	
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	
1.2.1. Relevant identified uses		
Main use category	: Professional use	
Industrial/Professional use spec	: For professional use only	
Use of the substance/mixture	: Acidic descaling toilet cleaner	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the sa SELDEN RESEARCH LIMITED	STADEN LANE, BUXTON, DERBYSHIRE, SK17 9RZ, UNITED KINGDOM	
SELDEN RESEARCH LIMITED	Tel: 01298 26226 Fax: 01298 26540 Email: safety@selden.co.uk	
1.4. Emergency telephone number		
Emergency number	: Mon to Fri 8.30am to 5.00pm - 01298 26226	
	· Mon to Fire.soan to 3.00pm - 01230 20220	
SECTION 2: Hazards identification	bn .	
2.1. Classification of the substance	or mixture	
Classification according to Regulation (E	EC) No. 1272/2008 [CLP]	
Skin Corr. 1A H314		
Full text of H-phrases: see section 16		
2.2. Label elements		
Labelling according to Regulation (EC)		
Hazard pictograms (CLP)		
Signal word (CLP)	GHS05 : Danger	
Hazardous ingredients	: hydrogen chloride	
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage	
Precautionary statements (CLP)	: P271 - Use only outdoors or in a well-ventilated area	
	P264 - Wash hands thoroughly after handling	
	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	d clothina.
	Rinse skin with water/shower	-
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes	3. Remove
	contact lenses, if present and easy to do. Continue rinsing P315 - Get immediate medical advice/attention	
	P405 - Store locked up	
2.3. Other hazards		

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture				
Name	Product identifier	%	Classification according to Directive 67/548/EEC	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	T; R23 C; R35	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	Not classified	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400

Full text of R- and H-phrases: 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	s, 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 sub-	stance or mixture
Hazardous decomposition products in case of fire	: Corrosive vapours.
5.3. Advice for firefighters	
No additional information available	
SECTION 6: Accidental release mease	Ires
6.1. Personal precautions, protective equ	pment and emergency procedures
6.1.1. For non-emergency personnel	
	: 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	t 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	e 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.
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.

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- Storage conditions Incompatible products
- Incompatible materials
- Special rules on packaging
- 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
- Hand protection
- Eye protection
- Skin and body protection
- Respiratory protection



:	Not red	quired	for	normal	conditio	ons of	use

: Keep container closed when not in use.

: Strong bases. Oxidizing agent.

: Keep only in original container.

: Protective gloves

: Metals.

- : Safety glasses
- : Not required for normal conditions of use
- : Not required for normal conditions of use

SECTION 9: Physical and chemica	
9.1. Information on basic physical and	
Physical state	: Liquid
Appearance	: Mobile liquid.
Colour	: Blue.
Odour	: characteristic.
Odour threshold	: No data available
рН	: 1
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
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	
SECTION 10: Stability and reactivi	tv

10.1. Reactivity

No additional information available

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10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
No addit	ional information available
10.4.	Conditions to avoid
No addit	ional information available
10.5.	Incompatible materials
metals.	
10.6.	Hazardous decomposition products

No additional information available

SECTION 11: Toxicological informat	SECTION 11: Toxicological information			
11.1. Information on toxicological effects				
Acute toxicity	: Not classified			
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			
Reproductive toxicity	: Not classified			
Specific target organ toxicity (single exposure)	: Not classified			
Specific target organ toxicity (repeated exposure)	: Not classified			
Aspiration hazard	: Not classified			
SECTION 12: Ecological information				

12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessmer	nt
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AD	DN
14.1. UN number	
UN-No. (ADR)	: 1789
UN-No. (IMDG)	: 1789
UN-No.(IATA)	: 1789
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: HYDROCHLORIC ACID
Proper Shipping Name (IMDG)	: HYDROCHLORIC ACID

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Proper Shipping Name (IATA) Transport document description (ADR) Transport document description (IMDG)	 HYDROCHLORIC ACID UN 1789 HYDROCHLORIC ACID, 8, II, (E) UN 1789 HYDROCHLORIC ACID, 8, II 	
14.3. Transport hazard class(es)		
ADR		
Transport hazard class(es) (ADR) Danger labels (ADR)	: 8 : 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)	: 11	
Packing group (IMDG)	: II : II	
Packing group (IATA)	. 11	
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)	: 1L	
Excepted quantities (ADR)	: E2	
	D004 ID000	

: P001, IBC02

: MP15

: T8

: TP2

: L4BN

: AT

: 2

Vehicle for tank carriage

Transport category (ADR)

Packing instructions (ADR)

(ADR)

provisions (ADR) Tank code (ADR)

Mixed packing provisions (ADR)

Portable tank and bulk container instructions

Portable tank and bulk container special

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Hazard identification number (Kemler No.) Orange plates

	1789
Tunnel restriction code (ADR)	: E
EAC code	: 2R
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B20
Tank instructions (IMDG)	: T 8
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: C
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3
ERG code (IATA)	: 8L

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

IBC code

: Not applicable.

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SECTION 15: Regulatory informati	on
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 substances with Annex XVII restr	ictions
Contains no substance on the REACH candidate	ate list
Contains no REACH Annex XIV substances	
15.1.2. National regulations	
Germany	
VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
- -	

Denmark

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
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
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