

Safety Data Sheet

according to UK REACH Regulation

REGI-CLEAN_DESCALER_R34491_GHS

Revision date: 03.02.2020

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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

Acid cleaner.

1.3. Details of the supplier of the safety data sheet

Company name: Reginox BV
Place: NL 7460 AB Rijssen
Post-office box: P.O. Box 82
NL 7460 AB Rijssen
e-mail: info@reginox.com
Internet: www.reginox.com
Responsible Department: Nationaal Vergiftigingen Informatie Centrum (NVIC),

1.4. Emergency telephone number: +31 (0) 30 274 8888

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements**GB CLP Regulation****Precautionary statements**

P102 Keep out of reach of children.

Additional advice on labelling

Ingredients according to Regulation (EC) No. 648/2004: <5% nonionic surfactants.

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
79-33-4	Lactic Acid 80%			< 1 %
	201-196-2			
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
77-92-9	Citric Acid			< 1 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
54549-25-6	Decylglykosid			< 1 %
	259-218-1			
	Eye Dam. 1; H318			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
77-92-9	201-069-1	Citric Acid	< 1 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 5040 mg/kg		

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

If experiencing symptoms: Call a doctor. Change contaminated clothing.

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

Repeated or prolonged contact with the product may cause irritation.

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

Symptomatic therapy.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Co-ordinate fire-fighting measures to the fire surroundings. CO₂, foam, powder, water spray-jet.**Unsuitable extinguishing media**

High power water jet.

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5.2. Special hazards arising from the substance or mixture

In case of fire, dangerous gases may form: e. g. carbon monoxide, carbon dioxide, sulphur oxides, ammonia and nitrogen oxides.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Prevent penetration of extinguishing water into surface and ground water and soil.

Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Make sure that all applicable workplace limits are observed. Wear personal protection equipment. Keep away from unprotected people. Keep upwind.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Pump off larger quantities.

6.4. Reference to other sections

See section 8 for information on personal protection equipment. See section 13 for disposal information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Make sure that all applicable workplace limits are observed. Do not eat, drink, smoke or sneeze at the workplace. Wash hands after use.

Advice on protection against fire and explosion

Danger of explosion by exposure to base metals due to hydrogen evolution. The product itself does not burn.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. After work, wash hands and face. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Protect from frost. Protect from heat and direct sunlight. Keep container tightly closed.

Further information on storage conditions

Provide acid-resistant floor.

7.3. Specific end use(s)

No further information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

The lists valid during the making were used as basis.

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8.2. Exposure controls**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment**Eye/face protection**

For repeated or commercial use: Tightly sealed safety glasses.

Hand protection

For repeated or commercial use: Wear suitable gloves. solvent-resistant (NBK). 0,5 mm, >480 min

Skin protection

For repeated or commercial use: Workwear

Respiratory protection

Not required.

Environmental exposure controls

Section 6 and 7.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	clear
Odour:	characteristic

Changes in the physical state

Boiling point or initial boiling point and boiling range: 100 °C

Flash point: No further information available.

Explosive properties

The product is not explosiv.

Lower explosion limits: No further information available.

Upper explosion limits: No further information available.

pH-Value (at 20 °C): 2,4

Viscosity / dynamic: No further information available.

Viscosity / kinematic: No further information available.

Water solubility: No further information available.

Solubility in other solvents

No further information available.

Vapour pressure: No further information available.

Vapour pressure: No further information available.

Density: 1,02 g/cm³

9.2. Other information**Other safety characteristics**

Solvent content: No further information available.

Solid content: No further information available.

Further Information

No other physico-chemical data were determined.

SECTION 10: Stability and reactivity

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10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

The product is chemically stable under normal environmental conditions.

10.3. Possibility of hazardous reactions

Reaction with metals to form hydrogen. Exothermic reaction with strong bases. Do not mix with substances containing chlorine - chlorine gas may develop.

10.4. Conditions to avoid

Protect from frost. Protect from heat and direct sunlight.

10.5. Incompatible materials

Hydrogen is released by reaction with metals.

10.6. Hazardous decomposition products

Not known.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicocinetics, metabolism and distribution**

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
77-92-9	Citric Acid				
	oral	LD50 mg/kg	5040	Mouse.	
	dermal	LD50 mg/kg	>2000	Ratte	

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

No further information available.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
79-33-4	Lactic Acid 80%					
	Acute algae toxicity	ErC50 mg/l	3500		Alge	
	Acute crustacea toxicity	EC50	240 mg/l	48 h	Daphnia magna	
77-92-9	Citric Acid					
	Acute fish toxicity	LC50 mg/l	440-760	96 h	Carassius auratus	96 h
	Acute algae toxicity	ErC50	640 mg/l		Scenedesmus quadricauda	7 d
	Acute crustacea toxicity	EC50	120 mg/l	48 h	Daphnia magna	72 h
	Acute bacteria toxicity	(EC50 mg/l)	10000		Pseudomonas putida	16 h

12.2. Persistence and degradability

No further information available.

12.3. Bioaccumulative potential

No accumulation in the organism is expected.

12.4. Mobility in soil

The product is water soluble.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further information available.

Further information

Do not allow to enter drainage system, surface or ground water. Do not allow large quantities of product to reach sewage system or water bodies. After neutralisation, only a relatively small damaging effect of the resulting salts is still present.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Water (with cleaning agent). @1304.B Completely emptied packages can be recycled. 130074 Water (with cleaning agent).

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SECTION 14: Transport information**Land transport (ADR/RID)**

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

1.00 - 09.05.2018
 1.01 - 20.07.2018
 1.02 - 30.07.2018
 1.03 - 03.08.2018
 1.04 - 20.08.2018
 1.05 - 03.02.2020

Abbreviations and acronyms

ATE - Acute Toxicity Estimate CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 EINECS - European Inventory of Existing Commercial Chemical Substances CAS# - Chemical Abstract Service number PPE - Personal Protection Equipment LC50 - Lethal Concentration to 50 % of a test population RMM - Risk Management Measures PBT - Persistent, Bioaccumulative and Toxic vPvB - Very Persistent and Very Bioaccumulative STOT- SE : Specific Target Organ Toxicity - Single Exposure CSA - Chemical Safety Assessment EN - European Standard UN - United Nations ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road IATA - International Air Transport Association IMDG code - International Maritime Dangerous Goods RID - Regulations concerning the

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International Carriage of Dangerous Goods by Rail WGK - Water Hazard Class

Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Further Information

The information is based on the current state of our knowledge, however, it does not represent an assurance of product properties and does not constitute a contractual legal relationship. Legal regulations and provisions are to be observed on your own responsibility. This safety data sheet replaces all previous copies. Previous editions are hereby invalid.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)