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

- · 1.1 Product identifier:
- · Trade name: Descaler
- · Article number: 141.811
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:** No further relevant information available.
- · Application of the substance / the preparation: Cleaning material/ Detergent
- 1.3 Details of the supplier of the safety data sheet:
 Manufacturer/Supplier:
- Schulz & Sohn GmbH Chemie-Erzeugnisse Hoeherweg 327 D-40231 Duesseldorf sida@schulzchemie.com

Distributet by: Thermoplan AG Thermoplan-Platz 1 CH-6353 Weggis Tel.: +41 41 3921200 thermoplan@thermoplan.ch

· Further information obtainable from: Product safety department

• **1.4 Emergency telephone number:** Toxin emergency call (24 hours): Phone: +44 (0) 845 4647

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture:
- · Classification according to Regulation (EC) No 1272/2008:

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

· 2.2 Label elements:

_ _ _ _ _ _ _ _

- · Labelling according to Regulation (EC) No 1272/2008:
- The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



· Signal word Danger

- Hazard-determining components of labelling: Lactic acid
- Hazard statements
 H315 Causes skin irritation.

H318 Causes serious eye damage.

· Precautionary statements

P280	Wear protective gloves / eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.

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(Contd. of page 1) P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards:

· Results of PBT and vPvB assessment:

- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 50-21-5	Lactic acid	5-<15%
EINECS: 200-018-0	🔗 Eye Dam. 1, H318; 🕔 Skin Irrit. 2, H315	
Reg.nr.: 2119474164-39		
CAS: 75-75-2	methanesulphonic acid	<1%
EINECS: 200-898-6	🛞 Acute Tox. 3, H311; 🔶 Skin Corr. 1B, H314; 🕔 Acute Tox. 4, H302	1
Reg.nr.: 2119491166-34	· · · · · · · · · · · · · · · · · · ·	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures:
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Rinse out mouth and then drink plenty of water.
- 4.2 Most important symptoms and effects, both acute and delayed:
- No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed:
- No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media:
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture: No further relevant information available.
- 5.3 Advice for firefighters:
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures: Not required.

• 6.2 Environmental precautions:

Dilute with plenty of water.

- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

- 6.4 Reference to other sections:
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling: The usual precautions when handling chemicals should be taken.

· Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities:

· Storage:

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Storage class: 12

• 7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters:
- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls:
- Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes.
- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves!

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

Recommendation: uvex u-chem 3000 (DIN EN 374) Material: Nitrile rubber, NBR Thickness of the material: 0,5 mm Value for the permeation: > 480 min (Level 6) Recommendation: uvex u-fit strong N2000 (DIN EN 374) Material: Nitrile rubber, NBR Thickness of the material: 0,2 mm Value for the permeation: > 480 min (Level 6)

Penetration time of glove material:

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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according to 1907/2006/EC, Article 31

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· Eye protection:



Tightly sealed goggles!

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties:		
· General Information:		
· Appearance: Form:	Fluid	
Colour:	Red	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value at 20 °C:	3.13	
· Change in condition:		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	: Undetermined.	
Flash point:	Not applicable.	
· Flammability (solid, gas):	Not applicable.	
· Decomposition temperature:	Not determined.	
• Auto-ignition temperature:	Product is not selfigniting.	
 Explosive properties: 	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density at 20 °C:	1.031 g/cm³	
Relative density:	Not determined.	
· Vapour density:	Not determined.	
· Evaporation rate:	Not determined.	
 Solubility in / Miscibility with: 		
water:	Fully miscible.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
Water:	86.1 %	
Solids content:	0.6 %	
• 9.2 Other information:	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity: No further relevant information available.

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- · 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: Reacts with alkali (lyes).
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects:
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- Skin corrosion/irritation
- Irritating to skin
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity 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:
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability: No further relevant information available.
- · 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods:
- · Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

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according to 1907/2006/EC, Article 31

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SECTION 14: Transport information		
· 14.1 UN-Number · ADR, IMDG, IATA	Void	
 14.2 UN proper shipping name ADR, IMDG, IATA 	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
 14.4 Packing group ADR, IMDG, IATA 	Void	
· 14.5 Environmental hazards:	Not applicable.	
 14.6 Special precautions for user 	Not applicable.	
 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. 		
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment:: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.

· Department issuing SDS: Product safety department

· Contact: Security Department

Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Acute Tox. 3: Acute toxicity - Category 3 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1