

Date of issue: 19.03.2018 Replaces Data Sheet of: 30.05.2016

"\*" alterations as compared to previous version;

n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier**  
**Trade Name :** Laufen Descaling Agent  
**Article No. :** A08024858 / 067605-000-00  
**Preparation No. :** 010  
**Registration No. :** n.av.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
 Use: Descaler
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the distributor:**  
 Laufen Bathrooms AG, Wahlenstrasse 49, 4242 Laufen, Switzerland  
 E-Mail: [forum@laufen.ch](mailto:forum@laufen.ch)  
 Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of Poisoning  
 Telephone : +41 (0) 848 114 242 Telephone : +44 870 600 6266  
 Monday – Friday (07:30 – 12:00 / 13 :00 – 17 :00)
- 1.4 **Address of the Producer:**  
 Ceragol international gmbh, Grundstrasse 41, 8196 Wil (ZH), Switzerland  
 Telephone : +41 (0) 44 879 16 31 / Monday – Friday (07:30 – 12:00 / 13 :00 – 17 :00)
- 1.5 **Address of the Supplier of components:**  
 InnoCent International GmbH, Reutackerstrasse. 22 – 24, 79591 Eimeldingen, Germany  
 Telephone : +49 (0) 7621 422 338 0 / Monday – Friday (08:00 – 12:00 / 13:00 – 17:00)
- 1.6 **Address of the Bottler:**  
 FRIKE CHEMICALS AG, Motorenstrasse 2a, 8623 Wetzikon / Switzerland  
 Telephone : +41 (0) 44 911 02 31 / Monday – Friday (08:00-12:00 / 13:00 – 16:30)
- 1.7 **Address of the Holding:**  
 COMTAG AG, Grundstrasse 41, 8196 Wil (ZH), Switzerland  
 Telephone : +41 (0) 44 879 16 30 / Monday – Friday (07:30 – 12:00 / 13 :00 – 17 :00)

## SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**  
 Eye Irrit. 2 / Skin Irrit. 2 / Aquatic Chronic 3 / Met. Corr.1
- 2.2 **Label elements**  
 Classification according to 1272/2008/EC: Yes.  
 \* Applicable Exemptions: Yes. See also section 16.  
 \* Signal word(s): Warning  
 Component(s):
- H - Phrases:**  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H412: Harmful to aquatic life with long lasting effects.  
 H290: May be corrosive to metals.
- P - Phrases:**  
 P101: If medical advice is needed, have product container or label at hand.  
 P102: Keep out of reach of children.  
 P260: Do not breathe dust.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 \* P337+P313: If eye irritation persists: Get medical advice/attention.  
 P302+P352: IF ON SKIN: Wash with plenty of water.  
 \* P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P301+P315: IF SWALLOWED: Get immediate medical advice/attention.  
 P273: Avoid release to the environment.
- Additional Markings:**  
 The above mentioned labelling is valid for distribution to industrial user/ private consumer.
- Hazard pictogram(s):



- 2.3 **Other hazards**  
 Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.  
 \* This mixture contains no substances which are assessed to be PBT or vPvB.

### SECTION 3: Composition/information on ingredients

- 3.1 **Substances**  
 n.ap.

- 3.2 **Mixtures**  
**Chemical Characterisation:**  
 Mixture based of sulphamic acid  
**Dangerous Ingredients:**

Material				m% - range
CAS - No.	Index - No.	EC - No.	REACH - No.	
Hazard Code(s) / H - phrases				
<b>Sulphamic acid</b>				<b>&gt; 75%</b>
5329-14-6	016-026-00-0	226-218-8	01-2119488633-28-xxxx	
Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Aquatic Chronic 3; H412				
<b>Sodium carbonate</b>				<b>1 - 5%</b>
497-19-8	011-005-00-2	207-838-8	01-2119485498-19-xxxx	
Eye Irrit. 2; H319				

Text of H - phrases: see section 16  
 m% - range: x - y □ x ≥ - < y

### SECTION 4: First aid measures

- 4.1 **Description of first aid measures**
- 4.1.1 **Inhalation:**  
 Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
- 4.1.2 **Skin Contact:**  
 Wash off with soap and water. If skin irritation persists, call a physician.
- 4.1.3 **Eye Contact:**  
 In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
- 4.1.4 **Ingestion:**  
 Do not induce vomiting. Clean mouth with water and afterwards drink plenty of water. Call a physician immediately.
- 4.2 **Most important symptoms and effects, both acute and delayed**  
 None known.
- 4.3 **Indication of any immediate medical attention and special treatment needed**  
 Treat symptomatically.

### SECTION 5: Firefighting measures

- 5.1 **Extinguishing media**
- 5.1.1 **Suitable Extinguishing Media:**  
 Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.
- 5.1.2 **Extinguishing Media to Avoid:**  
 None.
- 5.2 **Special hazards arising from the substance or mixture**  
 In the event of fire the following can be released:  
 respirable dust sulphur oxides nitrogen oxides (NO<sub>x</sub>) ammonia.
- 5.3 **Advice for firefighters**
- 5.3.1 **Special Protective Equipment:**  
 Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.
- 5.3.2 **Additional Information:**  
 Knock down dust with water spray jet.  
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Trade Name: ceragol Ultra® Premium Entkalker Granulat**

Company / Supplier: ceragol international GmbH, Grundstrasse 41, CH- 8196 Wil

Telephone: +41 (0)44 879 16 31, Date of issue: 14.03.2018 Replaces Data Sheet of: 26.11.2013

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

See chapter 8.2.2

Avoid dust formation.

**6.2 Environmental precautions**

Do not contaminate water. Do not empty into drains.

Local authorities should be advised if significant spillages cannot be contained.

**6.3 Methods and material for containment and cleaning up**

Use mechanical handling equipment. Avoid dust formation.

Sweep up and shovel into suitable containers for disposal.

**6.4 Reference to other sections**

None.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****7.1.1 Precautions for Safe Handling:**

Do not breathe dust. Avoid contact with skin and eyes. When using, do not eat, drink or smoke.

Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

**7.1.2 Precautions in Case of Fire and Explosion:**

Normal measures for preventive fire protection.

**7.2 Conditions for safe storage, including any incompatibilities****7.2.1 Storage Instructions:**

Keep container tightly closed in a dry and well-ventilated place.

Keep in an area equipped with acid resistant flooring. Do not use containers made of light metals.

**7.2.2 Store away from:**

Do not store together with strong bases oxidizing agents.

**7.2.3 Further Information on Storage Conditions:**

\* Never allow product to get in contact with water during storage.

**7.3 Specific end use(s)**

n.av.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Material****Limit Value****8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Provide for appropriate exhaust ventilation and dust collection at machinery.

**8.2.2 Individual protection measures****8.2.2a Respiratory Protection:**

In the case of respirable dust, use self-contained breathing apparatus.

\* Recommended filter type: P2

**8.2.2b Hand Protection:**

Protective gloves complying with EN 374.

\* Nitrile rubber (0,11 mm) break through time &gt; 8 h

\* The data about break through time/strength of material are standard values!  
The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

**8.2.2c Eye Protection:**

Tightly fitting safety goggles

**8.2.2d\* Skin Protection:**

Long sleeved clothing

**8.2.2e Further Information:**

Observe wearing time limits:

**8.2.3 Environmental exposure controls:**

n.av.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

9.1.1	<b>Form:</b> granular	<b>Colour:</b> white	<b>Odour:</b> odourless
			<b>Odour threshold:</b> n.av.
9.1.2	pH-value, undiluted:	n.ap.	
	pH-value, 1% aqueous solution:	n.av.	
9.1.3	Boiling point / Boiling - range (°C):	n.av., Melting point / Melting range (°C):	n.av.
9.1.4	Flash point (°C):	n.ap., closed cup	
9.1.5	Flammability (EEC A10/A13):	n.ap.	
9.1.6	Ignition temperature (°C):	n.ap.	
9.1.7	Autoflammability (EEC A16):	n.ap.	
9.1.8	Oxidising properties:	No.	
9.1.9	Explosion hazard:	n.ap.	
9.1.10	Explosion limits (Vol.%) lower:	n.ap., upper:	n.ap.
9.1.11	Vapour pressure:	n.ap.	
	Vapour density (Air = 1):	n.av.	
9.1.12	Density (g/ml):	~ 2,1	
9.1.13	Solubility (in Water):	soluble	
9.1.14	Partition coefficient, n-Octanol / Water:	n.ap.	
9.1.15	Viscosity:	n.av.	
9.1.16	Solvent content (m %):	n.ap.	
9.1.17	Thermal decomposition (°C):	n.av.	
9.1.18	Evaporation rate:	n.av.	
9.2	<b>Other information</b>		
	n.av.		

## SECTION 10: Stability and reactivity

10.1	<b>Reactivity</b> No information available.
10.2	<b>Chemical stability</b> Stable under normal conditions.
10.3	<b>Possibility of hazardous reactions</b> Gives off hydrogen by reaction with metals.
10.4	<b>Conditions to avoid</b> No conditions to be specially mentioned.
10.5	<b>Incompatible materials</b> Incompatible with strong bases and oxidizing agents, amines, sulphides, cyanides.
10.6	<b>Hazardous decomposition products</b> No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

	Acute Health Effects:	
	Inhalation:	n.av.
	Ingestion:	Sulphamic acid: LD <sub>50</sub> /oral/rat = 3160 mg / kg (RTECS)
	Skin Contact:	n.av.
	Skin corrosion / irritation:	Causes skin irritation.
	Serious eye damage / irritation:	Causes serious eye irritation.
	Respiratory or skin sensitisation:	n.av.
	Germ cell mutagenicity:	n.av.
	Carcinogenicity:	n.av.
	Reproductive toxicity:	n.av.
	STOT-single exposure:	n.av.
	STOT-repeated exposure:	n.av.
	Aspiration hazard:	n.av.
11.1.1 –	<b>Practical Experience</b>	
11.1.11	n.av.	
11.1.12	Practical Experience	
	Observations relevant for classification:	
	None.	
	Further Observations:	
	None.	
	Classification of the preparation has been done by calculation in accordance with EEC directives.	

**Trade Name: ceragol Ultra® Premium Entkalker Granulat**

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**SECTION 12: Ecological information****12.1 Toxicity**Sulphamidic acid: Fathead Minnow LC<sub>50</sub> (96h): 14,2 mg/l / 70,3 mg/l

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**12.2 Persistence and degradability**

Hydrolyses slowly.zu Ammoniumbisulfat.

**12.3 Bioaccumulative potential**

n.av.

**12.4 Mobility in soil**

n.av.

**12.5 Results of PBT and vPvB assessment**

This mixture contains no substances which are assessed to be PBT or vPvB.

**12.6 Other adverse effects**

12.6.1 COD-Value, mg/g: n.av.

12.6.2 BOD5-Value, mg/g: n.av.

12.6.3 AOX-Remarks: Not applicable.

12.6.4 Significant Components: Sulphamidic acid

12.6.5 Other adverse effects: Not applicable.

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

13.1.1 Recommendation: R5

Waste - Code - No.: 20 01 29

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.




In addition comply with the regional authorities.

**13.1.2 Contaminated Packaging**

Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

Safe Handling: As described under Residues.

**SECTION 14: Transport information**

	ADR	IMDG	IATA
14.1	<b>UN number</b> 2967	2967	2967
14.2	<b>UN proper shipping name</b> UN 2967 Sulfaminsäure	Sulfaminsäure	Sulphamic acid
14.3	<b>Transport hazard class(es)</b> 8 	8 	8 
14.4	<b>Packing group</b> III	III	III
14.5	<b>Environmental hazards</b>	No.	
14.6	<b>Special precautions for user</b> Transport category: 3 Classification Code: C2 Hazard - No.: 80 LQ: 5 kg	F-A, S-B	Packing Instructions (Passenger) 860 Packing Instructions (Cargo) 864
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	n.av.	

## SECTION 15: Regulatory information

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
n.av.
- 15.2 **Chemical safety assessment :**  
n.ap.

## SECTION 16: Other information

### Text of H phases mentioned in Section 3

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

### \*Applicable Exemption:

**It is allowed to use pictogram GHS07 instead of pictogram GHS05.**



1272/2008; ANNEX I, 1.3.6

„Substances or mixtures classified as corrosive to metals but not corrosive to skin and/or eyes which are in the finished state as packaged for consumer use do not require on the label the hazard pictogram GHS05.“

1272/2008; ANNEX I, 1.5.2.1.1 / 1.5.2.1.2 / 1.5.2.1.3 (Exception to Article 17)

This means: The H-phrases H315 / H319 / H290 and all P-phrases can be omitted on a package whose content is <125 ml / gr.

For reasons of child safety, however, it is advisable to take P-phrase P102 on the label or the packaging.

This datasheet has been compiled in accordance with EU regulation 2015/830.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.