



**Trade Name: ceragol Ultra® Geräteentkalker**

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

Telephone: +41 (0)44 879 16 31, Date of issue: 12.09.2017 Replaces Data Sheet of: 03.11.2014

**SECTION 3: Composition/information on ingredients****3.1 Substances**

n.ap.

**3.2 Mixtures****Chemical Characterisation:**

Mixture

**Dangerous Ingredients:**

Material	CAS - No.	Index - No.	EC - No.	REACH - No.	m% - range
<b>Sulphamic acid</b> 5329-14-6 Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Aquatic Chronic 3; H412		016-026-00-0	226-218-8	01-2119488633-28-xxxx	<b>50 - 60%</b>
<b>Sodium carbonate</b> 497-19-8 Eye Irrit. 2; H319		011-005-00-2	207-838-8	01-2119485498-19-xxxx	<b>1 - 10%</b>
<b>Adipic acid</b> 124-04-9 Eye Irrit. 2; H319		607-144-00-9	204-673-3	01-2119457561-38-xxxx	<b>1 - 10%</b>

Text of H - phrases: see section 16

m% - range: x - y  $\triangleq$  x  $\geq$  - < 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**

\* Ingestion may provoke the following symptoms: cough.

\* May cause respiratory irritation. May cause irritation of the mucous membranes.

\* According to concentration, aqueous solution causes irritation or burns of eyes, skin and mucous membranes.

**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® Geräteentkalker**

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

Telephone: +41 (0)44 879 16 31, Date of issue: 12.09.2017 Replaces Data Sheet of: 03.11.2014

**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. Store in original container.  
\* Never allow product to get in contact with water during storage.
- 7.2.2 **Store away from:**  
Do not store together with strong bases strong oxidizing agents.
- 7.2.3 **Further Information on Storage Conditions:**  
Ensure adequate ventilation.
- 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: P 2
- 8.2.2b **Hand Protection:** Protective gloves complying with EN 374.  
nitrile rubber (0,5mm) break through time > 8h  
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: Not relevant
- 8.2.3 **Environmental exposure controls:**  
n.av.

**Trade Name: ceragol Ultra® Geräteentkalker**

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

Telephone: +41 (0)44 879 16 31, Date of issue: 12.09.2017 Replaces Data Sheet of: 03.11.2014

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

9.1.1	<b>Form:</b> tablet	<b>Colour:</b> white	<b>Odour:</b> characteristic
			<b>Odour threshold:</b> n.av.
9.1.2	pH-value, undiluted:	n.ap.	
	pH-value, 1% aqueous solution:	~ 1,6	
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):	n.av.	
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> No dangerous reaction known under conditions of normal use.
10.4	<b>Conditions to avoid</b> Protect against humid air and water.
10.5	<b>Incompatible materials</b> Incompatible with strong bases and oxidizing agents.
10.6	<b>Hazardous decomposition products</b> No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.

**Trade Name: ceragol Ultra® Geräteentkalker**

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

Telephone: +41 (0)44 879 16 31, Date of issue: 12.09.2017 Replaces Data Sheet of: 03.11.2014

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute Health Effects:

Inhalation:

n.av.

Ingestion:

Sulfamidsäure: 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 – Practical Experience**

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.

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

\* We have no quantitative data concerning the ecological effects of this product.

**12.2 Persistence and degradability**

The methods for determining biodegradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

n.av.

**12.4 Mobility in soil**

n.av.

**12.5 Results of PBT and vPvB assessment**

n.av.

**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:

Amidosulfonsäure

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.

**13.2 Contaminated Packaging**

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

13.2.2 Safe Handling: As described under Residues.

**Trade Name: ceragol Ultra® Geräteentkalker**

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

Telephone: +41 (0)44 879 16 31, Date of issue: 12.09.2017 Replaces Data Sheet of: 03.11.2014

**SECTION 14: Transport information**

	<b>ADR</b>	<b>IMDG</b>	<b>IATA</b>
	Not a dangerous substance as defined in the above regulations.		
14.1	<b>UN number</b>		
14.2	<b>UN proper shipping name</b>		
14.3	<b>Transport hazard class(es)</b>		
14.4	<b>Packing group</b>		
14.5	<b>Environmental hazards</b>		
14.6	<b>Special precautions for user</b>		
	Transport category: Classification Code: Hazard - No.: LQ:		Packing Instructions (Passenger)  Packing Instructions (Cargo)
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>		

**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.

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.

Prepared by: CoSiChem AG, Ernst-Lemmer-Straße 23, D - 35041 Marburg, info@cosichem.de, +49-6421-886563

Receipt of Data: 10.09.2012, \$ctg\_0003

