



**Trade Name: ceragol Ultra® Premium Entkalker 6 Additive**

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

Telephone: +41 (0)44 879 16 31, Date of issue: 14.06.2018 Replaces Data Sheet of: 20.07.2017

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

n.ap.

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

Mixture aqueous solution

**Dangerous Ingredients:**

Material	CAS - No.	Index - No.	EC - No.	REACH - No.	m% - range
<b>Sulphamidic acid</b>					<b>1 - 10%</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>2,2'-(Octadec-9-enylimino)bisethanol</b>					<b>0,1 - 1%</b>
25307-17-9	n.av.	246-807-3	n.av.		
Acute Tox. 4; H302 / Skin Corr. 1; H314 / Aquatic Acute 1; H400					

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 vapours or decomposition products.

If symptoms persist, call a physician.

**4.1.2 Skin Contact:**

Rinse with water. If symptoms persist, 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:**

Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting.

Call a physician immediately. Show this safety data sheet to the doctor in attendance.

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

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

**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:

Carbon oxides nitrogen oxides (NO<sub>x</sub>) sulphur oxides oxides of phosphorus 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:**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures**

- 6.1 **Personal precautions, protective equipment and emergency procedures**  
See chapter 8.2.2  
Contaminated surfaces will be extremely slippery.
- 6.2 **Environmental precautions**  
Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.
- 6.3 **Methods and material for containment and cleaning up**  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Soak up with inert absorbent material (e.g. sand, universal binder, sawdust).  
Sweep up or vacuum up spillage and collect in suitable container 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:**  
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.  
When diluting, always add the product to water. Never add water to the product.
- 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 containers tightly closed in a cool, well-ventilated place. Avoid subsoil penetration.
- 7.2.2 **Store away from:**  
Do not store together with oxidizing agents bases.
- 7.2.3 **Further Information on Storage Conditions:**  
None.
- 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 appropriate exhaust ventilation at machinery.
- 8.2.2 **Individual protection measures**
- 8.2.2a **Respiratory Protection:** Not required under normal use.  
In case of insufficient ventilation, wear suitable respiratory equipment.
- 8.2.2b **Hand Protection:** Repeated or prolonged exposure: Protective gloves complying with EN 374.  
Butyl-rubber Neoprene (0,4 mm) break through time > 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:** In case of contact through splashing: safety glasses
- 8.2.2d **Skin Protection:** None.
- 8.2.2e **Further Information:** Observe wearing time limits:
- 8.2.3 **Environmental exposure controls:**  
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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

9.1.1	<b>Form:</b> liquid	<b>Colour:</b> colourless	<b>Odour:</b> characteristic
			<b>Odour threshold:</b> n.av.
9.1.2	pH-value, undiluted:	< 1	
	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):	No.	
9.1.6	Ignition temperature (°C):	n.av.	
9.1.7	Autoflammability (EEC A16):	n.av.	
9.1.8	Oxidising properties:	No.	
9.1.9	Explosion hazard:	No.	
9.1.10	Explosion limits (Vol.%) lower:	n.av., upper: n.av.	
9.1.11	Vapour pressure:	n.av.	
	Vapour density (Air = 1):	n.av.	
9.1.12	Density (g/ml):	~ 1	
9.1.13	Solubility (in Water):	miscible	
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.	
9.1.15	Viscosity:	n.av.	
9.1.16	Solvent content (m %):	n.av.	
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>
	No conditions to be specially mentioned.
10.5	<b>Incompatible materials</b>
	Incompatible with oxidizing agents, strong bases.
10.6	<b>Hazardous decomposition products</b>
	No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.

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

Acute Health Effects:

Inhalation:

n.av.

Ingestion:

sulphamidic acid: LD<sub>50</sub>/oral/rat: 3160 mg / kg (RTECS)

Skin Contact:

n.av.

Skin corrosion / irritation:

None.

\* Serious eye damage / irritation:

None (OECD 437)<sup>1)</sup>

Respiratory or skin sensitisation:

No.

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.

Information given is based on data obtained from similar substances.

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

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

\* Sulphamidic acid: LC<sub>50</sub>/96h/Fathead minnows = 14,2 mg/l / 70,3 mg/l**12.2 Persistence and degradability**

No data is available on the product itself.

Solutions with low pH-value must be neutralized before discharge.

**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: D 10 / R 4

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.

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**SECTION 14: Transport information**

	<b>ADR</b>	<b>IMDG</b>	<b>IATA</b>
*	Not a dangerous substance as defined in the above regulations. <sup>2)</sup>		
*	The information is based on our own tests.		
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**

- H302: Harmful if swallowed.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H400: Very toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

**\*Literature:**

- 1) Study No. 14102705G850 Laus GmbH, Kirrweiler, Germany
- 2) Prüfprogramm Nr. 10, InnoCent International GmbH, Eimeldingen, Germany

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.



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