



Xn : Harmful

**Producer**

CHRYSO SAS  
7 rue de l'Europe  
45300 SERMAISES DU LOIRET France  
Tél. 00 33 2 38 34 58 00  
E-Mail : fds@chryso.com  
In case of emergency : ORFILA : 01.45.42.59.59

**1. Identification of the substance/mixture and of the company/undertaking**

Identification of the product : Liquid.  
Company identification : See producer.  
Trade name : CHRYSO®RocaSol Plus.  
Type of product : Hardener and waterproofing agent.  
Use : Industrial.

**2. Hazards identification**

Mixture classification : Irritating to eyes and respiratory system.  
Harmful by inhalation.  
Dangerous product : Flammable.  
Symptoms relating to use  
- Inhalation : Inhalation of vapours cause respiratory irritation. Danger of serious damage to health by prolonged exposure through inhalation.  
- Skin contact : Repeated or prolonged skin contact may cause irritation. May cause skin to become dry or cracked.  
- Eye contact : Redness, pain. Eye irritant upon direct contact. Blurred vision.  
- Ingestion : Must not come into contact with food or be consumed. Swallowing a small quantity of this material presents some health hazard. Abdominal pain, nausea.

**3. Composition/information on ingredients**

Chemical nature : solvent based inorganic salts preparation  
This product is classified and contains hazardous components.

Substance name	Contents	CAS No / EC No / Index No	Symbol(s)	R-Phrase(s)
Ethyl silicate	: > 20 %	78-10-4 / 201-083-8 / 014-005-00-0	Xn	10-20-36/37

**4. First aid measures**

First aid measures  
- Inhalation : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.  
- Skin contact : Wash skin thoroughly with mild soap and water. Seek medical attention if ill effect or irritation develops.  
- Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.  
- Ingestion : Rinse mouth. DO NOT INDUCE VOMITING. Seek medical attention if ill effect develops.

### 5. Fire-fighting measures

Flammable class	: This product is flammable.
Prevention	: No naked lights. No smoking.
- Suitable extinguishing media	: Foam. Powder.
- Unsuitable extinguishing media	: Water.
Surrounding fires	: Use water spray or fog for cooling exposed containers.
Protection against fire	: Use self-contained breathing apparatus when in close proximity to fire.
Special procedures	: Exercise caution when fighting any chemical fire.


### 6. Accidental release measures

General precautions	: Remove ignition sources.
Personal precautions	: No smoking. Equip cleanup crew with proper protection.
Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Clean up methods	: Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers. Dilute residues and flush.

### 7. Handling and storage

General	: No naked lights. No smoking. Store and handle as though always a serious potential fire/explosion and health hazard exists.
Precautions in handling and storage	: Handle in accordance with good industrial hygiene and safety procedures. Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
Technical protective measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage	: Keep in fireproof place. Store in dry, well-ventilated area. Keep container closed when not in use. Keep away from combustible material.
Storage - away from	: Heat sources. Sparks. Direct sunlight.
Handling	: Eliminate quickly from the eyes, to clean the skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

### 8. Exposure controls/personal protection

Occupational Exposure Limits	: Ethyl Silicate : VME = 10 ppm (85 mg/m3)
Personal protection	
- Respiratory protection	: Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- Hand protection	: Wear suitable gloves resistant to chemical penetration of standard material nitrile.
- Skin protection	: Wear long sleeves, clothes that covers well.
- Eye protection	: Safety glasses.
- Ingestion	: When using, do not eat, drink or smoke.
Industrial hygiene	: Provide local exhaust or general room ventilation to minimize vapour concentrations.

### 9. Physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Colourless.
Odour	: Characteristic.
Density	: <1

**9. Physical and chemical properties (continued)**

Solubility in water : Soluble in water with difficulty.  
Flash point [°C] : 49 °C

**10. Stability and reactivity**

Hazardous reactions : None under normal conditions.  
Hazardous properties : None under normal conditions.  
Conditions to avoid : Open flame. Heat.

**11. Toxicological information**

Rat oral LD50 [mg/kg] : No data available.

**12. Ecological information**

LC50-96 Hour - fish [mg/l] : No data available.

**13. Disposal considerations**

General : Avoid release to the environment. Comply with local regulations for disposal.  
Dispose of this material and its container at hazardous or special waste collection point.

**14. Transport information**

- Labelling



: 3 : Flammable liquid.

General information

- Proper shipping name : Flammable liquids, n.o.s., ethyl silicate, 3, III, (D/E)

Shipping name : Flammable liquids, n.o.s., ethyl silicate, 3, III, (D/E)

- UN No. : 1993

Land transport

- H.I. nr : 30

- ADR/RID : Class : 3  
Group : III

Sea transport

- IMO-IMDG code : Class : 3

IMO Packing group : III

- EMS-Nr : F-E S-E

- IMDG-Marine pollution : NO

Air transport

- ICAO/IATA : Packaging instructions cargo : 310  
Packaging instructions passenger: 309

- IATA - Class or division : 3

IATA Packing group : III

**15. Regulatory information**

- Symbol(s) : Xn : Harmful.  
R Phrase(s) : R10 : Flammable.  
R20 : Harmful by inhalation.  
R36/37 : Irritating to eyes and respiratory system.  
S Phrase(s) : S3 : Keep in a cool place.  
S16 : Keep away from sources of ignition - No smoking.  
S23 : Do not breathe spray.  
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S35 : This material and its container must be disposed of in a safe way.  
S43 : In case of fire, use powder, foam.  
S51 : Use only in well-ventilated areas.

**16. Other information**

Text of R-Phrases in § 3 : R10 : Flammable.  
R20 : Harmful by inhalation.  
R36/37 : Irritating to eyes and respiratory system.  
Recommended uses and restrictions : See technical data sheet for detailed information.  
Print date : 9 / 11 / 2012

The contents and format of this SDS are in accordance with EEC Commission Directive 1907/2006 CE (REACH).

**DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

**End of document**