

## SAFETY DATA SHEET “KRISTALLUX”

### 1) IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Commercial name: KRISTALLUX – CRISTALIZADOR CR-2 ROSA  
INTENDED USE: Polishing product for Marble  
COMPANY IDENTIFICATION: HYPROS SA  
Pont-du-Centenaire 144  
1228 PLAN-LES-OUATES  
Tél. 022 338 35 00  
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hypros@hypros.com

Emergency Number: 145

### 2) HAZARDS IDENTIFICATION

Classification according to the Directive (CE) n° 1272/2008~487/2013 (CLP):  
Acute Tox. (oral) 4:H302 | Skin Irrit. 2:H315 | Eye Dam. 1:H318 | Aquatic Chronic 3:H412

Mixture Classification	Cat.	Exposicion
Acute Tox. (oral) 4:H302	Cat.4	Ingestion
Skin Irrit. 2:H315	Cat.2	Skin
Eye Dam. 1:H318	Cat.1	Eyes
Aquatic Chronic 3:H412	Cat.3	

Label Elements:



The product is labeled as toxic according to the Directive (CE) n° 1272/2008~487/2013 (CLP)

#### Hazard phrases:

H302 Harmful if swallowed  
H315 Causes skin irritation  
H318 Causes serious eye damage  
H412 Harmful to aquatic life with long-lasting effects

#### Precautionary phrases:

P102 Keep out of reach of children  
P280B Wear protective gloves/protective clothing/eye protection/face protection  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P273-P501a Avoid release to the environment. Dispose of contents/container to precautions

#### additional information

EUH208 Contains mixture 247-500-7 mit ec 220-239-6 (3:1). May produce an allergic reaction

### 3) COMPOSITION / INFORMATION ON INGREDIENTS

This substance is a mixture.

Chemical description:  
intermediate pigmented in aqueous substance

hazardous components

Substances which exceed the exemption limit and presenting a risk to health and / or the environment, and / or exposure limits in the workplace:

30 < 40 %



magnesium hexafluorosilicate  
CAS: 16949-65-8 , EC: 241-022-2  
REACH: 01-2119980031-47  
CLP:– Acute Tox. (oral) 3:H301 |  
Eye Dam. 1:H318 | Aquatic  
Chronic 3:H412

Index nº 009-018-00-3

< 1 %



ethoxylated oleylamine  
CAS: 26635-93-8 , EC: 500-048-7  
DSD: Xn:R22 | C:R34 | N:R50  
CLP: Acute Tox. (oral) 4:H302 | Skin Corr. 1B:H314 | Aquatic Acute  
1:H400

Auto classified

< 0,0015 %



Mixture of 5-cloro-2-metil-2H-isotiazol-3-ona [EC 247-500-7] y 2-metil-2H-isotiazol-3-ona [EC 220-239-6] (3:1)  
CAS: 55965-84-9 , index nº 611-341-5 Index nº 613-167-00-5  
< REACH / CLP00  
CLP: Acute Tox. (inh.) 3:H331 | Acute Tox. (skin) 3:H311 | Acute Tox. (oral) 3:H301 | Skin Corr. 1B:H314 | Skin Sens. 1A:H317 | Aquatic Acute 1:H400 | Aquatic Chronic 1:H410

60 < 70 %

Water  
CAS: 7732-18-5, EC: 231-791-2

For better information on hazardous components, see sections 8, 11, 12, 16.

SVHC substances subject to authorization, referred in Annex the V of the XI Regulation (EC) No 1907/2006:

no

SVHC substances to be included in Annex XIV or Regulation (EC) No 1907/2006:

No

### 4) FIRST AID MEASURES

This product's composition is deposited at the Toxicology Information Service (Toxicology National Institute in Spain). Tel. (91) 562 04 20.

**Skin contact:** Take off the injured's contaminated clothing. Rinse affected parts with a water jet and neutral soap. If irritation continues, seek medical advice as soon as possible.

**Eye contact:** Rinse meticulously with current water during 15 minutes, raising occasionally the top and bottom eyelids. Seek medical advice as soon as possible. Never use contact lenses while working with this product.

**Inhalation:** Take the injured to a calm and ventilated area (clean air). Keep away from the dangerous area. Keep the person calm and half sit up. If breathing is labored, or if the injured is cyanotic, give him oxygen with a facemask or give 6 effervescent calcium pills dissolved into water. Seek medical advice as soon as possible.

**Swallowing:** Rinse mouth with water. Give plenty of water. Do not induce vomiting nor make gastric lavage. Seek medical advice as soon as possible.

**Warning:** Swallowing in small quantities may cause serious hypocalcaemia. In case of intoxication or accident, go to an Urgent Care Center.

**Information Source:** National Safety and Hygiene Labor Institute.

### 5) FIRE-FIGHTING MEASURE

**Extinguishing media:** (RD.1942/1993 ~ RD.560/2010):

In case of fire, use appropriate extinguishing media.

Special hazards arising from the substance or mixture:

As a consequence of combustion or thermal decomposition, can form dangerous products: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to health.

RECOMMENDATIONS FOR FIREFIGHTERS:

- Depending on the size of the fire, it may be necessary to use protective suits against the heat, SCBA, gloves, goggles and masks and boots.
- Other recommendations: Cool with water the tanks, cisterns or containers close to the heat source or fire. Take into account the wind direction. Prevent the products used to fight the fire from entering into drains, culverts or waterways.

## 6) ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Avoid direct contact with the product.

**ENVIRONMENTAL PRECAUTIONS:**

Avoid contamination of drains, surface water or groundwater and soil. In case of large leakage or if the product contaminates lakes, rivers or sewers, inform the responsible authorities according to local legislation.

**Methods and materials for containment and cleaning up:**

Take up with absorbent material (sawdust, sand, earth, vermiculite, diatomaceous earth, etc. ..). Preserve the remains in a closed container.

**Reference to other sections:**

For exposure controls and personal protection measures, see section 8.

For disposal of waste, follow the recommendations under section 13.

## 7) HANDLING AND STORAGE

**Precautions for safe handling:**

Comply with current legislation in the field of safety at work.

**General recommendations:**

Avoid any kind of spill or leak. Do not leave containers open.

**Recommendations for the prevention of fire and explosion:**

Not applicable.

**Recommendations for the prevention of toxicological risks:**

Do not eat, drink or smoke while handling the product. After handling, wash hands with soap and water. To control exposure and personal protection measures, see section 8.

**Recommendations to avoid contamination of the environment:** It is not considered a danger to the environment.

In case of accidental spillage, follow the instructions in section 6.

**Terms safe storage, including any incompatibilities:**

Prevent access by unauthorized persons. Keep away from foodstuffs, beverages and feed. Keep out of the reach of children.

Keep away from heat sources. If possible, avoid direct solar radiation. To avoid leaks, containers, once opened, should be carefully closed and placed vertically. For more information, see section 10.

Storage class	class T. ITC MIE APQ-7, RD.379/2001~RD.105/2010.
Temperature range:	min: 5. ° C, max: 40. ° C

**Incompatible materials:**

Keep away from oxidising agents, acids.

**Type of packaging:**

In accordance with current legislation.

**Quantity (Seveso III):** Directive 96/82/EC ~ 2003/105/EC (RD.1254/1999 ~ RD.948/2005):

Threshold: 50 tons, threshold: 200 tons

**Specific uses:**

There are no specific recommendations for the use of this product other than those already mentioned.

## 8) EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Control parameters**

Occupational exposure limit	VLA-ED	VLA-EC	Year
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values (VLA)							
INSHT 2012 (RD.39/1997)	ppm	mg/m3	ppm	mg/m3			
magnesium hexafluorosilicate		2.5			F		1999
Mixture CIT EC 247-500-7		0.080		0.23	Raccomended		
MIT EC 220-239-6 (3:1)							

VLA - Threshold Limit Value, ED - Daily exposure, EC - short-term exposure.

Biological limit values:

unavailable

Derived No Effect Level (DNEL) for workers:

unavailable

Predicted No Effect Concentration (PNEC)

Unavailable

Exposure Controls:

Occupational exposure controls: Directive 89/686/EEC ~ 96/58/EC (RD.1407/1992):

Provide adequate ventilation. To do this, you must perform a local exhaust ventilation system and have a good general extraction.

Respiratory protection:

- Mask:

Mask for gases and vapors (EN141). To obtain an adequate level of protection, the type of filter must be selected according to the type and concentration of the contaminants present, according to the specifications of the manufacturer of the filter. The breathing masks do not work satisfactorily when the air contains high concentrations of vapors.

Eye and face protection:

Install emergency glasses near to the working area.

- Glasses:

Safety glasses with suitable lateral protection (EN 166).

- Face: No.

Protection of hands and skin:

Install emergency showers in the vicinity of the work area. The use of sunscreen may help to protect exposed areas of the skin. Sunscreens should not be applied after exposure.

- Gloves:

Chemical resistant gloves (EN374). The breakthrough time of gloves must be chosen according to the period of intended use. There are various factors (eg temperature), which makes protective gloves resistant to chemicals for a time well below the established standard EN374. Because of the wide variety of situations and possibilities, it is necessary to consider the instructions of the manufacturer of the gloves. Gloves should be replaced immediately if you notice signs of decay.

- Boots: No.

- Apron: No.

- Mono:

Wear appropriate work clothing to prevent contact with the product.

ENVIRONMENTAL CONTROLS:

Avoid release to the environment.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow dispersal into drains, sewers or watercourses.

Emissions into the atmosphere: Not applicable.



## 9) PHYSICAL AND CHEMICAL PROPERTIES

- Physical state:	liquid
- Colour:	Rosa.
- Odour:	Characteristic.
- Odor Threshold:	unavailable
PH value	
- PH:	1.5 to 20 ° C
Change in condition	
- Freezing point:	unavailable

- Boiling point density	:> 100. ° C at 760 mmHg
- Vapour density:	not applicable
- Density:	1.167 g/cm <sup>3</sup> a 20 ° C
stability	
- Decomposition temperature:	120. ° C
viscosity:	
- Dynamic Viscosity:	unavailable
volatility:	
- Evaporation rate:	not applicable
- Vapour pressure:	17.5 mmHg at 20 ° C
- Vapour pressure:	12.3 kPa at 50 ° C
Solubility (i)	
- Solubility in water ::	not applicable
- Solubility in fats and oils ::	unavailable
- Partition coefficient: n-octanol/water:	not applicable
Flammability:	
- Flash point:	not flammable
- Limit Upper / lower flammability / explosion hazards:	not applicable
- Ignition temperature:	not applicable
explosive properties	not applicable
oxidizing property	not applicable

Additional Information:

- Non-volatile type: 15.7%
- VOC (supplied): Not applicable

The figures do not correspond to the specifications of the product. The data for the specifications of the product may be found in the data sheet of the same. For more information on safety instructions on the physico-chemical and environmental, see sections 7 and 12.

**10) STABILITY AND REACTIVITY**

**REACTIVITY:**

Not available.

Chemical Stability:

Stability storage and handling.

Possibility of hazardous reactions:

Possible dangerous reaction with oxidizing agents, acids.

**CONDITIONS TO AVOID:**

- Heat: Keep away from heat sources.
- Light: If possible, avoid direct contact with sunlight.
- Air: Not applicable.
- Pressure: Not applicable.
- Shock: Not applicable.

Incompatible materials:

Keep away from oxidising agents, acids.

Hazardous decomposition products:

As a result of thermal decomposition, formation of dangerous products: hydrofluoric acid.

**11) TOXICOLOGICAL INFORMATION**

Information on toxicological effects:

Routes of exposure:

SHORT TERM EXPOSURE: Harmful if swallowed.

Prolonged or repeated exposure:

Dose and lethal concentrations	DL50 (OECD 401)	DL50 (OECD 402)	CL50 (OECD 403)
individual components:	mg / kg oral	mg / kg dermal	mg/m <sup>3</sup> 4hours inhalation
magnesium hexafluorosilicate	290. Rat	> 2000. Rat	3600. rat

## 12) ECOLOGICAL INFORMATION

Ecotoxicological experimental data are not available on the preparation. The ecotoxicological classification of this preparation was carried out using the conventional method of calculation of Directive 1999/45/EC ~ 2006/8/EC (RD.255/2003 ~ OM.PRE/164/2007).

toxicity	CL50 (OECD 203)	CE50 (OECD 202)	CE50 (OECD 201)
individual components:	mg/l.96 ore	mg/l.48 ore	mg/l.72 ore
magnesium	> 100 fishes	50 Dafnia	34 Algae
hexafluorosilicate			
Mixture CIT EC 247-500-7	0.19 fishes	0.16 Dafnia	0.018 Algae
MIT EC 220-239-6 (3:1)			

### Persistence and degradability:

Degradability: The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation 648/2004/EC on detergents: aerobic biodegradation > 60% within 28 days. The evidence in support of this statement are available to the competent authorities of the Member States and will be delivered on your direct request or at the request of a detergent manufacturer.

Photodegradability: Not applicable.

Bioaccumulative potential:

Not available.

Mobility in soil:

Not available.

RESULTS OF PBT and vPvB

Not available.

Other adverse effects:

Potential decrease of the ozone layer: Not available.

Potential of photochemical ozone creation: Not available.

Possibility of Global warming: Not available.

Possibility of Endocrine disrupting: Not available.

## 13) DISPOSAL CONSIDERATIONS

### METHODS FOR THE TREATMENT OF WASTE: Directive 2008/98/EC (Law 22/2011):

Take all necessary measures to minimize the production of waste. Analyze potential methods of revaluation or recycling. Dispose this material and its container in a safe way. Do not discharge into drains or on the environment. Remove to an authorized collection point for waste. All waste must be handled and disposed of in accordance with local and national regulations. For exposure controls and personal protection measures, see Section 8.

Elimination of Empty Containers: ~ Directive 94/62/EC 2005/20/EC, Decision 2000/532/EC (Law 11/1997, as amended by RD.782/1998,

RD.252/2006 and Law 22/2008, MAM/304/2002 order):

Empty containers and packaging should be disposed of in accordance with local and national regulations.

Procedures for neutralizing or destroying the product:

Landfill authorized in accordance with local regulations

## 14) TRANSPORT INFORMATION

Number: not applicable

OFFICIAL DESIGNATION OF TRANSPORT OF THE UNITED NATIONS:

not applicable

CLASS (S) OF DANGER FOR TRANSPORT AND PACKAGING:

**road transport (ADR 2015):**

**rail transport (RID 2015):**

Not applicable.

**Sea transport (IMDG 36-12)**

Not applicable.

**Air transport (ICAO/IATA 2014)**

Not applicable.

**Transport by inland waterways (ADN):**

Not applicable.

### 15) REGULATORY INFORMATION

Community legislation and EU legislation in the field of SAFETY, HEALTH AND ENVIRONMENT:

- It is applicable to Regulation (EC) No 648/2004 ~ 907/2006 on detergents. Contains cationic surfactants <5% surfactants <5%. Do not ingest.

RESTRICTIONS:

Restrictions on the manufacturing, marketing and use, Annex XVII to Regulation (EC) No 1907/2006:

Not applicable.

Recommended usage and restriction:

Not applicable.

Other regulations:

- In those areas not covered by Regulation (EC) No 648/2004 ~ 907/2006 on detergents, is applicable RD.770/1999 (Recommendation 89/542/EEC), for approval of technical and health regulations for the movement of production and trade in detergents and cleaners.

### 16) OTHER INFORMATION

TEXT AND NOTES CORRESPONDING TO THE REFERENCED SUBSTANCES IN PARAGRAPH 2 and / or 3:

**Hazard phrases:**

H302	Harmful if swallowed
H315	Causes skin irritation
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H412	Harmful to aquatic life with long-lasting effects

**Precautionary phrases:**

P102	Keep out of reach of children
P280B	Wear protective gloves/protective clothing/eye protection/face protection
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.
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P273-P501a	Avoid release to the environment. Dispose of contents/container to precautions

**additional information**

EUH208 Contains mixture 247-500-7 mit ec 220-239-6 (3:1). May produce an allergic reaction

- European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- Acceso al Derecho de la Unión Europea, <http://eur-lex.europa.eu/>
- Límites de exposición profesional para Agentes Químicos en España, (INSHT, 2014).