

SAFETY DATA SHEET “KRISTAL BLU”

1) IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Commercial name: Kristal Blu - Crystal Shield
Product use: Crystal shield for polished tiles and granites
COMPANY IDENTIFICATION: HYPROS SA
Pont-du-Centenaire 144
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Emergency Number: 145

2) COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Percent (by weight)	CAS No.	EINECS
Silica	13%	14808-60-7	238-879-4
FEVE	3,8%	9010-75-7	N/A
Oxalic Acid	2.2%	144-62-7	205-634-3
Water	81%	7732-18-5	231-791-2

3) HAZARDS IDENTIFICATION

Caution! May cause eye and skin irritation. The toxicological properties of this material have not been fully investigated.
Target organs: Eye and skin.
Hazard Sorts: Not available.
Potential health effects:
-eye: contact may result in: temporary irritation (itching) or redness may occur.
-skin: prolonged contact with skin may result in mild skin irritation.
-ingestion: product is not intended to be ingested or eaten under normal condition of use. If ingested, it may cause temporary irritation to the gastrointestinal (GI) tract, especially the stomach.
-inhalation: none identified.
Chronic: no information found.

4) FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes.
SKIN: Wash exposed skin with soap and water. If irritation develops, seek medical attention.
INGESTION: If the material is swallowed, get immediate medical attention or advice. Give several glasses of water or milk.
INHALATION: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if necessary.

5) FIRE-FIGHTING MEASURE

General information: The polymer/silicon dioxide emulsion is not flammable, however, when becoming dry in case of evaporation, this dry polymer is flammable in presence of ignition source. As in any fire, wear a self-contained breathing apparatus in pressure-demand and full protective gear. Normal combustion products include carbon dioxide, carbon monoxide, water vapour, other hydrocarbons and hydrocarbon oxidation products.
Extinguishing media: Dry chemical, water spray, foam, carbon dioxide.

6) ACCIDENTAL RELEASE MEASURES

General information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Stop source of spill as soon as possible and notify appropriate personnel. Caution slipping floor. Appropriate ventilation. In case of small amount spills/leaks, absorb spill with inert material (e.g. vermiculite, sand or earth). In case of large amount spills/leaks, build a dike or trench, then place in suitable container. Keep out of water supplies and sewers.

7) HANDLING AND STORAGE

Storage: Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat, and out of direct sunlight.
Handling: Protect against physical damage. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

8) EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure limit:
CAS# 14808-60-7
TLV-TWA 0.05 mg/m³ (ACGIH)

TLV-TWA 0.05 mg/m3 (NIOSH)
CAS 144-62-7
TLV-TWA 1 mg/m3 (ACGIH)
TLV-TWA 1 mg/m3 (NIOSH)
TLV-TWA 1 mg/m3 (OSHA)

Monitoring methods: no information found.

Engineering controls: good general ventilation should be sufficient to control airborne levels. Working area should be equipped with an eyewash facility and a safety shower.

Personal protective equipment:

-eyes: wear appropriate protective eyeglasses or chemical safety goggles.

-skin: wear appropriate gloves to prevent skin exposure.

-clothing: wear appropriate protective clothing to prevent skin exposure.

-respirators: use an approved respirator if exposure limits are exceeded or if the irritation or other symptoms are experienced.

Other protection: no smoking scene work. To maintain good health habits.

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Emulsion
Odour:	Slightly odor
Molecular formula:	N/A
Molecular weight:	N/A
pH:	2,45
Vapor pressure:	N/A
Vapor density:	N/A
Evaporation rate:	N/A
Viscosity:	N/A
Bolling point:	N/A
Freezing/melting point:	N/A
Flash point:	> 100°
Decomposition temperature:	N/A
Specific gravity/density:	N/A
Ignition temperature:	N/A
Solubilità:	Dilute in water
Major use:	Stone care

10) STABILITY AND REACTIVITY

Chemical stability: stable under normal condition.

Condition to avoid: heat.

Incompatibilities with other materials: strong oxidizers.

Hazardous decomposition products: decompose at high temperature.

Hazardous polymerization: will not occur.

11) TOXICOLOGICAL INFORMATION

Toxicological information

CAS# 14808-60-7

LD50: >5000 mg/kg(oral, rat)

CAS# 144-62-7

LD50: >7500 mg/kg(oral, rat)

CAS# 7732-18-5

LD50: >90 mg/kg(oral, rat)

Carcinogenicity: not listed by ACGIH, IARC, NTP, or CA prop 65.

Sensitization rate: N/A

Teratogenicity: N/A

12) ECOLOGICAL INFORMATION

Ecological toxicity: N/A

Ecological degradation: N/A

Abiology degradation: N/A

Aquatic toxicity: no data available

13) DISPOSAL CONSIDERATIONS

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal state, and local environmental regulation.

14) TRANSPORT INFORMATION

Not regulated as a hazardous material for transportation (IMDG, IATA, DGR)

UN: N/A

Packaging sign: N/A
Shipping name: N/A
Packaging category: N/A
Packaging method: N/A
Shipping notice: N/A
Classification: N/A

15) REGULATORY INFORMATION

Regulatory information: reference to the local, national and EU / International regulations.
Hazard symbols: N/A
Safety description:
S24/25: avoid contact with skin and eyes.
S61: avoid release to the environment. Refer to special instructions/Safety Data Sheets.
Risk codes: N/A

16) OTHER INFORMATION

Issue time: 2014-8-20
Issue department: technical department
Data review unit:
Modification record:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.