



Material Safety Data Sheet

Top Crystal

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1. Product

Product Name:

Top Crystal

2. Hazards Identification

2.1. Classification of the substance or mixture

Classification under CHIP: Xi: R36/37/38; Sens.: R43; -: R52/53

Classification under CLP: Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335

Most important adverse effects: Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements under CLP:

Hazard Statements:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Signal words:

Danger

Hazard pictograms:

GHS07: Exclamation Mark



Precautionary statements:

P271: Use only outdoors or in a well-ventilated area.

P280: Wear.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor.

P312: Call a POISON CENTER or doctor if you feel unwell.

P321: Specific treatment (see on this label).

2.3. Other hazards

Other hazards:

May cause sensitization by skin contact.

PBT:

This substance is not identified as a PBT substance.

**3. Composition / Information on Ingredients****3.2. Mixtures**

INCI – Ingredient Name	%-Range
Urethane Acrylate Oligomer	75-100
Di-HEMA Trimethylhexyl Dicarbamate	5-10
Pentaerythrityl Tetraacrylate	1-5
Hydroxypropyl Methacrylate	1-5
Hydroxycyclohexyl Phenyl Ketone	1-5
Ethyl Trimethylbenzoyl Phenylphosphinate	0,1-1
CI 60725	< 0.1
p-hydroxyanisole	< 0.1

4. First Aid Measures**4.1. Description of first aid measures**

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Wash out mouth with water. Consult a doctor.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. Fire Fighting Measures**5.1. Extinguishing media**

Extinguishing media:	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
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5.2. Special hazards arising from the substance or mixture

Exposure hazards:	In combustion emits toxic fumes.
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5.3. Advice for fire-fighters

Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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6. Accidental Release Measures



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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Environmental precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures:

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. Handling and Storage

7.1. Precautions for safe handling

Handling requirements:

Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging:

Polyethylene. Steel drums

8. Exposure Controls / Personal Protection

8.1. Control parameters

Workplace exposure limits:

Not applicable.

8.2. Exposure controls

Engineering measures:

Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection:

Self-contained breathing apparatus must be available in case of emergency.

Hand protection:

Protective gloves.

Eye protection:

Safety glasses. Ensure eye bath is to hand.

Skin protection:

Protective clothing.

9. Physical and Chemical Properties



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9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Clear
Odour:	Characteristic odour
Specific Gravity:	(H ₂ O=1):1.10
Flash point°C:	100°C
Solubility in Water:	Insoluble

9.2. Other information

Other information:	Not applicable.
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10. Stability and Reactivity

10.1. Reactivity

Reactivity:	Stable under recommended transport or storage conditions.
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10.2. Chemical stability

Chemical stability:	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions. Polymerization may occur on exposure to conditions or materials listed below.
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10.4. Conditions to avoid

Conditions to avoid:	Direct sunlight. Heat. Hot surfaces.
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10.5. Incompatible materials

Materials to avoid:	Strong oxidising agents. Strong acids.
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10.6. Hazardous decomposition products

Haz. decomp. products:	In combustion emits toxic fumes.
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11. Toxicological Information

11.1. Information on toxicological effects Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT INH DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated



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11.2 Symptoms/routes of exposure

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

12. Ecological Information

12.1. Toxicity

Ecotoxicity values:	Not applicable.
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12.2. Persistence and degradability

Persistence and degradability:	Not biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential:	Bioaccumulation potential.
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12.4. Mobility in soil

Mobility:	Readily absorbed into soil.
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12.5. Results of PBT and vPvB assessment

PBT identification:	This substance is not identified as a PBT substance.
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12.6. Other adverse effects

Other adverse effects:	Toxic to aquatic organisms. Toxic to soil organisms.
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13. Disposal Considerations

13.1. Waste treatment methods

Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal company.
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NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport Information

Transport class:	This product does not require a classification for transport.
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15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) NO. 1907/2006 (REACH):

Annex XIV: None of the components are listed.

Annex XVII: Not applicable

Other EU Regulations:

Europe Inventory:

All components are listed or exempted.