

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **KRISTAL 10 1.1**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/ Mixture

Recommended Use: Decorative and protective epoxy coating/casting for artwork/creative applications Chemical family:
Two part epoxy resin.

1.3 Details of the supplier of the safety data sheet

Company: AMT Composites (Pty) Ltd
AMT HEAD OFFICE
JOHANNESBURG
TEL: +27 11 392 4232

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture – Classification (Regulation (EC) No. 1272/2008)

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H317 May cause allergic skin reaction
- H322 Harmful if inhaled
- This product contains bisphenol resin and is slightly irritating to the respiratory tract, skin and eyes.

First Aid measures are listed in the event the product is not used as intended.

2.2 Following the usage instructions provided will ensure first aid measures are not likely needed.

- a) If swallowed, call a Poison Control Centre or doctor immediately
- b) Inhalation: If inhaled, call a Poison Control Centre or doctor immediately
- c) Overexposure Effects : Prolonged overexposure to this material can cause irritation to the skin and eyes, and respiratory irritation.
- d) Though unlikely, can cause allergic skin and/or respiratory reactions and/or headache.
- e) Medical conditions aggravated by exposure: Allergy or skin conditions including eczema
- f) Additional Information: Promptly remove wet clothing
- g) Accidental eye contact; rinse with water
- h) Skin contact: If on skin rinse well with water

2.3 Label elements

Labelling (REGULATION (EC) No 1272/2008)

GHS Label elements including precautionary statements:

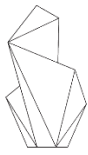
GHS Labels:



Signal Word: WARNING

Hazard Statement(s): H315: Causes skin irritation
H317: May cause allergic skin reaction
H319: Causes serious eye irritation

Hazard Classification: Skin Irritant - Category 2, Eye Irritant - Category 2



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EPOXY RESIN CASTING SYSTEM PART A & B

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Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P103: Read label before use

P262: Do not get in eyes, on skin, or on clothing

P271: Use only in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye and face protection

P285: In case of inadequate ventilation, wear respiratory protection

P333+P313: If skin irritation/rash occurs: Get medical attention

P337+P313: If eye irritation persists: Get medical advice/attention

P501: Dispose of contents/container in accordance with local/regional/ national and international regulations **NFPA Rating:**

SECTION 3: Composition/information of ingredients

Chemical Name	CAS No.	EC #	Concentration
Polyoxypropelen ediamine	9046 10-0	618-561-0	60-70%
1.4 butanediol diglycidyl ether	2425-79-8	219-371-7	30-40%

SECTION 4: First aid measures

Inhalation: If discomfort is experienced, move to well ventilated area.

Skin contact: Wash skin with lotion or soapy water. If allergic reaction is experienced seek medical help.

Into the eyes: Rinse as soon as possible for 15 minutes. If discomfort is still experience, seek medical assistance.

Ingestion: Immediately induce vomiting and seek medical treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media: Foam, sand, Carbon dioxide (Co2) , water mist.

Unsuitable extinguishing media: Water spray jet

5.2 Special hazards arising from the substance or mixture:

Special hazards during fires :

- a) Under high temperature, the pressure inside the sealed container will increase.
- b) Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters:

- a) **Special protective equipment or firefighters:** In the event of a fire, wear self-contained breathing apparatus and use personal protective equipment.
- b) **Further information:** Do not inhale fumes in the event of fire or explosion. Use fire-fighting measures appropriate to the local environment.
- c) **Immediately evacuate personnel to a safe area. To prevent fire water from contaminating the surface water system, fire residues and contaminated fire water must be disposed of in accordance with local regulations.**

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures



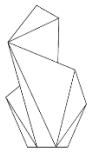
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6.1 Personal precautions:

- Refer to the protective measures listed in Articles 7 and 8.
- Disperse personnel into a safe area.
- Use personal protective equipment.
- Ensure adequate ventilation.

6.2 Environmental precautions

- If there is a large amount of gas leaking or entering the waterway, soil or drain, it should be notified to the relevant government departments.
- Do not allow products to be discharged into the environment uncontrolled.

6.3 Methods and materials for separation and cleaning:

Cleaning method:

- Soak with inert absorbent material (sand, silica gel, acid binder, universal adhesive, etc.).
- Contain spillage, then collect with non-combustible adsorbent material (sand, earth, diatomaceous earth, silver mud mica), place in a container, and dispose of it according to local national regulations (see Section 13). Go to the container labelled with the appropriate label.

6.4 Refer to other sections:

See section 8 for personal protection.

SECTION 7: Handling and storage

7.1 Safety Handling Precautions:

- Provide adequate air exchange or exhaust in the workroom.
- Avoid inhalation, ingestion / eye/skin contact for a long time.
- Anyone with a history of skin allergies or asthma, chronic or recurrent respiratory disease should not use the product in any location.

Fire and explosion protection recommendations: Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures: Provide adequate ventilation and wash hands immediately before and after using this product.

7.2 Safe storage conditions, including any incompatibilities

Use in a well-ventilated place, prohibit the use of this product in high heat, freezing, sparks, flame. Body and clothing in direct contact.

Storage: cool and dry place to store, pour out the glue cannot be back to the original container.

Other data: areas where normal temperature and pressure are stable.

SDB GB SECTION 8: Exposure controls/personal protection

8.1 Control parameters Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Reaction product: bisphenol-A

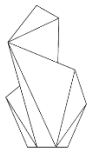
End Use: Workers (epichlorohydrin) and epoxy resin (number average molecular weight < 700)

8.2 Personal protective equipment:

Eye protection :

- Do not wear contact lenses
- Safety glasses with side-shields conforming to EN166
- Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection



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- Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN374.
- Skin and body protection : protective suit

Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In the case of vapour formation use a respirator with an approved filter Respirator with a vapour filter (EN 141) Apply technical measures to comply with the occupational exposure limits This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.

8.3 Exposure controls

Engineering measures

Effective exhaust ventilation system effective ventilation in all processing areas

Personal protective equipment

Eye protection:

- Do not wear contact lenses
- Safety glasses with side-shields conforming to EN166
- Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection

Material

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Respiratory protection:

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In the case of vapour formation use a respirator with an approved filter Respirator with a vapour filter (EN 141). Apply technical measures to comply with the occupational exposure limits This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.

Protective measures

- Avoid contact with skin.
- Wear suitable protective equipment:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance : liquid

Colour : Transparent

Odour : No

Odour Threshold: not determined \Ph: not determined

Melting point/freezing point: not determined

Boiling point/boiling range : 269°C

Flash point: 269°C

Evaporation rate: not determined

Upper explosion limit: not determined

Lower explosion limit: not determined

Vapour pressure: not determined

Relative vapour density: not determined

Density: 1,15g/cm³ (25 °C)

Bulk density: not determined

Solubility:

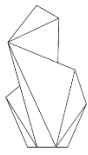
Solubility in other solvents : not determined

Partition coefficient: n- : octanol/water : No data available

Auto-ignition temperature : Not applicable

Thermal decomposition: Not applicable

Method: No data available



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Viscosity: 1000-2000mPa.s (25 °C)
Viscosity kinematic: not determined
Explosive properties: Not applicable
Oxidizing properties: Not applicable

SECTION 10: Stability and reactivity

- 10.1 Reactivity:** Stable under recommended storage conditions.
10.2 Chemical stability: No decomposition if stored and applied as directed.
10.3 Possibility of hazardous reactions: No dangerous decomposition products known.
10.4 Skin corrosion/irritation: No data available

SECTION 12: Ecological information

Additional Information: Amines in general may be harmful to aquatic organisms.
Aquatic Toxicity: No further relevant information available
Persistence and Degradability: No further relevant information available.
Bio-cumulative Potential: No further relevant information available.
Mobility in Soil: No further relevant information available.
12.3 Bio-accumulative potential: No data available
12.4 Mobility in soil: No data available

SECTION 13: Disposal considerations

Waste Disposal Method: Dispose of in accordance with federal, state and/or local regulations.
Recommendations: Cured product may be disposed of together with household garbage.