Material Safety Data Sheet

HiTemp 130 AB - Heat Resistant Epoxy

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

1.1 Product identifier

Trade name : **Heat Resistant Epoxy**

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

Use of the Substance/ Mixture

Recommended Use: Requires bonding / encapsulation / coating of high temperature 100 ° C

Chemical family: Two part epoxy resin

1.3 Details of the supplier of the safety data sheet

Company : AA Composites International Pty Ltd

Telephone :+61 444 568 646

Web: https://www.aaci.au

Address: Unit 4, 23 Londor Close, Hemmant, 4174, QLD, Australia

1.4 Emergency telephone number - 0418991337

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

1.Eat: If swallowed, call a Poison Control Centre or doctor immediately

2.Inhalation: If swallowed, call a Poison Control Centre or doctor immediately

3.Overexposure Effects :Prolonged overexposure to this material can cause irritation to the skin and eyes, and respiratory irritation. Though unlikely, can cause allergic skin and/or respiratory reactions and/or headache. 4.Medical conditions aggravated by exposure:Allergy or skin conditions including eczema

5.Additional Information:Promptly remove wet clothing

6.Mistaken into the eyes: If in eyes, rinse with water

7.Skin contact: If on skin rinse well with water

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

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

Signal Word:CAUTION

Hazard Statement(s):H317 Repeated and prolonged exposure, may cause skin sensitization

Pictogram:

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

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NFPA Rating: Health: 1 ,Flammability: 1,Instability: 0, Specific Hazard: N/A.

HMIS® Rating:Health: 1 ,Flammability: 1, Physical Hazard: 0 , Personal Protection Index: C

SECTION 3: Composition/information of ingredients

3.2 Mixtures

Chemical nature: Modified epoxy resin

Common Names/Synonyms: Epoxy Resin, Epoxy Coating, Novolac Epoxy, Two-part Epoxy

CAS Numbers and other Identifiers:

Epoxy resin

Chemical Name	CAS No.	EC No.	Concentration
epoxy resin	61788-97-4		/ 100%

Harder

Chemical Name	CAS No.	EC No.	Concentration
Modified Amine Adduct	61791-26-2		/ 95%
Thinner	2425-79-8	219-371-7	5%

SECTION 4 :First aid measures

4.1

Inhalation: discomfort can breathe fresh air at the ventilation.

Skin contact: Wash skin with lotion or soapy water, cause skin allergies should stop contact and seek medical help.

Into the eyes: as soon as possible with plenty of water rinse for 15 minutes, still feel discomfort, please seek medical help.

Eating: Immediately induce vomiting and send it to the hospital for treatment;

4.2 Signs of immediate medical attention and special treatment:

no information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Form, 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 :

1.Under high temperature, the pressure inside the sealed container will increase.

2.Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

1.Special protective equipment or firefighters: In the event of a fire, wear self-contained breathing apparatus and use personal protective equipment.

2.Further information: Do not inhale fumes in the event of fire or explosion. Use fire-fighting measures appropriate to the local environment and the Victorian environment.

Immediately evacuate personnel to a safe area. To prevent fire water from contaminating the surface water system, fire

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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

6.1 Personal precautions:

1. Refer to the protective measures listed in Articles 7 and 8.

2. Disperse personnel into a safe area.

3. Use personal protective equipment.

4. Ensure adequate ventilation.

6.2 Environmental precautions

1 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.

2. Do not allow products to be discharged into the environment uncontrolled.

6.3 Methods and materials for separation and cleaning:

Cleaning method:

1. Soak with inert absorbent material (sand, silica gel, acid binder, universal adhesive, etc.).

2. Contain spillage, then collect with non-combustible ab-type 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 labeled with the appropriate label.

6.4 Refer to other sections:

See section 8 for personal protection.

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SECTION 7:Handling and storage

7.1 Safety Handling Precautions:

1. Provide adequate air exchange or exhaust in the workroom.

2. Avoid inhalation, ingestion / eye/skin contact for a long time.

3. 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 save, pour out the glue can not 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:

1.Reaction product: bisphenol-A End Use: Workers (epichlorohydrin) and epoxy resin (number average molecular weight < # 700)

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Acute systemic effects, Long-term systemic effects

Value: 8,33 mg/kg ,

End Use: Workers

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Exposure routes: Inhalation

Potential health effects: Acute systemic effects, Long-term local effects

Value: 12.25 mg/m3

End Use: Consumers

Exposure routes: Skin contact .

Potential health effects: Acute systemic effects

Systemic effects Value: 3,571 mg/kg

End Use: Consumers

Exposure routes: Ingestion ,

Long-term systemic effects

Value: 0,75 mg/kg :

1.6-bis(2,3- epoxypropoxy hexane

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 2,8 mg/kg

End Use: Workers

Exposure routes: Inhalation Potential health effects: Long-term systemic effects

Value: 4,9 mg/m3

2.Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight ca 700)

Fresh water

Value: 0,006 mg

Marine water

Value: 0,0006 mg/l

Intermittent releases

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Value: 0,018 mg/l

Sewage treatment plant

Value: 10 mg/l

Fresh water sediment

Value: 0,996 mg/kg

Marine sediment

Value: 0,0996 mg/kg

Soil

Value: 0,196 mg/kg

1,6-bis(2,3- epoxypropoxy)hexane

Sewage treatment plant

Value: 1 mg/l

Fresh water

Value: 0,0115 mg/l

Fresh water sediment

Value: 0,283 mg/kg

Marine water

Value: 0,00115 mg/l

Marine sediment

Value: 0,0283 mg/kg

Soil Value: 0,223 mg/kg

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system effective ventilation in all processing areas

Personal protective equipment

Eye protection :

1. Do not wear contact lenses

2.Safety glasses with side-shields conforming to EN166

3. Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection:

Material

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

Skin and body protection:

1.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 formation use a respirator with an ap- proved 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

1.Avoid contact with skin.

2.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

EVapouration rate:not determined

Upper explosion limit:not determined

Lower explosion limit:not determined

Vapour pressure:not determined

Relative vapour density:not determined

Density : 1,15 g/cm3 (25 °C)

Bulk density : not determined

Solubility (ies)

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

Viscosity : 1000-2000mPa.s (25 °C)

Viscositv, kinematic:not determined

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

Surface tension : Not determined

Sublimation point:Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

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10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions - reacts with the following substances: Bases Strong oxidizing agents Avoid amines.

10.4 Conditions to avoid Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials Materials to avoid :
Incompatible with oxidizing agents.

10.6 Hazardous decomposition products Hazardous decomposition products : This product may release the following: Carbon monoxide, carbon

dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information
11.1 Information on toxicological effects

Non-toxic and tasteless Product:
Non-toxic and tasteless Remarks:
No data available

Components:

reaction product: bisphenol-A-(epichlorohydrin) and epoxy resin (number average molecular weight < 700):

Skin corrosion/irritation

Product: No

Remarks: No data available

Components:

reaction product: bisphenol-A-(epichlorohydrin) and epoxy resin (number average molecular weight <- 700):

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Species: Rabbit Exposure time: 4 h Method: OECD Test
Guideline 404 Result: Skin irritation GLP: yes

Serious eye damage / eye irritation

Product:

Remarks: No data available

Respiratory or skin sensitisation
Product:

Remarks: No data available

Components: reaction product: bisphenol-A-(epichlorohydrin) and epoxy resin (number average molecular weight <700):

Test Type: Mouse Local Lymph Node assay (LLNA) Species: Mouse Method: OECD
Test Guideline 429 Result: May cause sensitisation by skin contact GLP: yes

Germ cell mutagenicity
Carcinogenicity Reproductive
toxicity STOT -single exposure
Product: Remarks: Not applicable
STOT -repeated exposure Repeated
dose toxicity Product:

Remarks: No data available

Aspiration toxicity

Components: reaction product: bisphenol-A-epichlorohydrin) and epoxy resin (number average molecular weight <700):

No aspiration toxicity classification

Further information
Product:

Remarks: 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.

Biocumulative Potential:No further relevant information available.

Mobility in Soil:No further relevant information available.

12.2 Persistence and degradability
Product

Biodegradability : Remarks: No data available

Components : reaction product: bisphenol-A-(epichlorohydrin) and epoxy resin (number average molecular weight 700):

Biodegradability :

Result: Not readily biodegradable. Method: OECD Test Guideline 301F
GLP: yes

12.3 Bioaccumulative potential
Product:

Bioaccumulation : Remarks: No data available 12.4
Mobility in soil

No data available

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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

SECTION 14: Transport information

DOT, ADR AND IMDG ,IATA: Non-hazardous for transport

Hazard Class under: DOT, ADR AND IMDG ,IATA:
Non-hazardous for transport

Marine Pollutant: Non-hazardous for transport

Class:55

UN:3907.30.0000

Notes: Not regulated under DOT, ADR, AND, IMDG, IATA

SECTION 15: Regulatory information

Occupational Safety and Health Act (OSHA):

This Safety Data Sheet (SDS) has been prepared in compliance with the federal OSHA Hazard Communication

Standard 29 CFR 1910.1200(g). This product is not considered to be a hazardous chemical under that standard.

Labeling of Hazardous Art Materials Evaluation (LHAMA) :

This Safety Data Sheet (SDS) has been prepared in compliance with Toxicological Risk Assessment report # 5118-334-0103A/B which determined that: “the product is not considered to be toxic (acute/chronic), corrosive, and/or a strong sensitizer when used as intended or under circumstances involving reasonably foreseeable misuse. The classification of hazards are as defined in the 16 CFR 1500.3 (b) (5) , (7)-(9) (FHSA regulations).”

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Resource Conservation and Recovery Act (RCRA):

Not a hazardous waste under RCRA (40 CFR 261).

Toxic Substances Control Act (TSCA): All ingredients are on the TSCA inventory and are exempt as per 40CFR723.50 Low Volume Exemption(LVE) and Low Environmental Release and Low Human Exposure Exemption (LoREX).

SARA Title III: Section 304 - CERCLA: Not listed.

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does NOT contain a toxic chemical for routine annual “Toxic Chemical Release Reporting” under Sec. 313 (40 CFR 372). This information must be included in all SDSs that are copied and distributed for this material.

Proposition 65 (Safe Drinking Water and Toxic Chemicals Act): None of the components of this formula are known to the state of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: Other information

The SDS is based on the new OSHA HCS requirements for chemical manufacturers that came into effect in June 2015. The product passed the Food Simulated Solvent Extraction (FSSE) test. This product complies with ASTM D4236.

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