



Safety Data Sheet Klearlam Clear Epoxy Casting Part B

Updated April 2021

1. Identification of the Material and Supplier

Product Name:	Klearlam Clear Epoxy Casting Part B
Product Code:	KLEAR-B
UN Number:	2735
DG Class:	8
Shipping Name:	Polyamines, Liquid, Corrosive, n.o.s. (Mixture contains Isophoronediamine)
Packaging Group:	III
Hazchem Code:	3X
Uses:	Industrial and Professional use only
Company:	H S Composites
Address:	63 Hunua Road, Papakura, Auckland 2110
Telephone:	+64 (09) 295 2200
Email:	sales@hscomposites.co.nz
Website:	www.hscomposites.co.nz

2. Hazard Identification

Regulatory Information	Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020
HSNO Approval Number	HSR002658
Dangerous Goods Class	8

Hazardous Classifications

Acutely Toxic (Oral)	Category 3
Acutely Toxic (Dermal/Skin)	Category 3
Skin Sensitisation	Category 1
Specific Target Organ Toxicity Single Exposure	Category 1
Specific Target Organ Toxicity Repeated Exposure	Category 2
Skin Corrosion/Irritant	Category 1C
Serious Eye Damage/Corrosion	Category 1
Aquatic Toxicity (Chronic)	Category 2
Toxic to Terrestrial Vertebrates	

Pictograms:

Signal Word: DANGER

HEALTH HAZARDS:

H301	Toxic if Swallowed
H311	Toxic in Contact with Skin
H314	Causes Severe Skin Burns and Eye Damage
H317	May Cause Allergic Skin Reaction
H318	Causes Serious Eye Damage
H361	Suspected of Damaging Fertility or the Unborn Child
H371	May Cause Damage to Organs
H372	Causes Damage to Organs through Prolonged or Repeated Exposure

ENVIRONMENT HAZARDS:

H411	Toxic to Aquatic Life with Long Lasting Effects
H412	Harmful to Aquatic Life with Long Lasting Effects

PRECAUTIONARY STATEMENTS: Preventions

P101	If medical advice is required have product container/label/SDS at hand
P102	Keep out of reach of children
P103	Read Label/SDS before use
P201	Obtain instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flame/hot surfaces. No smoking.
P233	Keep container tightly closed
P235	Keep cool
P260	Do not breath dust/fumes/gas/mist/vapours/spray
P264	Wash hands and exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use/Store only in well-ventilated areas
P272	Contaminated clothing should not be allowed out of the work place
P273	Avoid release of this product into the environment
P280	Wear protective clothing, gloves and eye protection

RESPONSE:

P101	If medical advice is needed, have product container, SDS or label at hand
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P301 + P312	If swallowed call POISON CENTRE or DOCTOR if you feel unwell
P330	Rinse out mouth, do not swallow rinse
P301 + P310	If swallowed immediately call POISON CENTRE OR DOCTOR
P302 + P352	If on skin or hair, wash with plenty of soap and water
P308	If exposed or concerned seek medical advice
P330 + P331	Rinse out mouth, DO NOT induce vomiting
P314	Get medical advice if you feel unwell
P333 + P313	If skin irritation occurs, get medical advice
P361 + P362	Take off contaminated clothing and wash before reuse
P304 + P340	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 +P338	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, continue to rinse
P337 + P313	If eye irritation persists seek medical advice
P391	Collect any spillage

STORAGE:

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P235	Keep cool.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P405	Store in Locked Area

DISPOSAL:

P501	Dispose of product and packaging in accordance with local and Governmental regulations or through an approved waste disposal plant.
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Dangerous Goods Classification 8**Packing Group** III**Hazchem Code** 3X**3. Composition / Information on Ingredients**

Component	Cas No	Proportion
Isophoronediamine	2855-13-2	>60%
Benzyl Alcohol	100-51-6	>20%
Nonyphenol	25154-52-3	0-5%
Bisphenol A / Epichlorohydrin Resin	25085-99-8	0-3%
Bisphenol F Diglycidyl Ether Polymer	28064-14-4	0-3%
Other ingredients not hazardous	-	To 100

4. First Aid

For advice, contact the National Poisons Centre (Phone New Zealand: 0800 764 766) or a doctor, show Doctor in attendance a copy of this SDS.

Inhalation: Move the person to fresh air immediately, provide oxygen if breathing is difficult. Keep warm and at rest until recovered. Get medical advice if person feels unwell or is concerned. Begin artificial respiration if breathing has stopped and get immediate medical assistance.

Skin Contact: If skin contact occurs, remove contaminated clothing. Wash with water for 15 minutes then wash skin with soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before re-use. Leather shoes cannot be decontaminated and should be destroyed.

Eye Contact: Hold eyelids apart and flush the eye continuously with running water for 15 minutes. Remove contact lenses after 5 minutes if present, and easy to do. Continue flushing. Get medical attention.

Ingestion: If swallowed, DO NOT induce vomiting. Rinse mouth with water. Get medical advice. Call a Doctor and/or contact Poisons Information Centre.

First Aid Provider: Wear PPE, provide eye baths and safety showers close to areas where splashing may occur, use a mouth barrier if giving resuscitation.

Note to Doctor/Physician: Treat symptomatically, supply copy of SDS, danger of aspiration, emesis and vomiting.

5. Fire Fighting Measures

DANGER CORROSIVE

Flammable liquids and vapours: Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media: Water fog, foam, dry chemical or carbon dioxide (CO₂).

Hazards from combustion products: Smoke and irritating fume.

Precautions for fire fighters and special protective equipment: Full protective clothing and self-contained breathing apparatus. Use approved positive pressure self-contained breathing apparatus.

Hazchem Code: **3X**

6. Accidental Release Measures

Steps to be taken if the material is released or spilled. **DANGER CORROSIVE**

Evacuate personnel to a safe area. Use Protective equipment as required. Ensure adequate ventilation in area. Make sure there is no risk to personnel.

Stop leak if you can do it without risk to yourself or others.

Eliminate all sources of ignition (flames, hot surfaces, electrical, static or frictional sparks, no smoking).

Contain the area of spillage and absorb remainder with sand or perlite and place the saturated absorbent into closed containers and label for disposal.

Prevent contamination of storm-water drains and waterways.

Waste disposal method. Contaminated absorbent to be placed in sealed leak proof containers and disposed of in accordance with appropriate local or governmental regulations.

Correctly label all material containers to be disposed of.

7. Storage and Handling

Keep out of reach of children. Use Personal Protection. Avoid inhalation of vapour and contact with skin, eyes and clothing. Launder contaminated clothing before re-use, wash skin with soapy water.

Wash hands thoroughly after using and before eating.

Do not breath vapours, keep area well ventilated, NO SMOKING.

Store in a locked and bunded area or approved flammable goods store away from direct heat, store below 30°C. Keep containers closed when not in use. Open drums slowly in case of internal pressure. Isolate from all potential sources of ignition including flames and electrical sparks.

Store separate from oxidising materials, peroxides and metal salts.

Flash point, 112°C.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Limits

None Established as per manufacturers SDS.

Keep work areas well ventilated.

Use explosion proof equipment.

Skin Protection: Wear overalls or other work clothing providing arm and leg cover. Use protective gloves.

Eye Protection: Safety goggles or splash mask.

If sanding or grinding the hardened product ensure there is adequate ventilation, exhaust fans and the correct PPE.



9. Physical / Chemical Properties

Physical Description & colour:	Colourless liquid.
Odour:	Ammonia odour.
Boiling Point:	247°C
Flammable Liquid Flash Point:	112°C
Flammable Limits:	LEL Not available UEL Not available
Relative Density:	0.96
Vapour Density:	Same as air
Percent Volatiles:	<60%

Water Solubility: Non miscible (does not mix with water)
Auto Ignition Temperature: >300°C

10. Stability and Reactivity

Stability: Stable under normal conditions and storage requirements.
Conditions to avoid: Potentially violent decomposition at temperatures above 300°C causing gas generation and pressure increases in closed containers.
Materials to avoid: Oxidising agents, acids and alkalis'
Hazardous May occur as result of high temperature
Polymerisation: if burned, these products will evolve black, acrid smoke along with carbon oxides, phenolics and water.

11. Toxicological Information

Wear the correct Personal Protection equipment with this product and any others.

When used under properly controlled conditions, within workplace exposure limits and with adequate ventilation and protective equipment, no adverse health effects are to be expected.

Inhalation of Vapour: Vapours are unlikely due to physical properties.

Eye Contact: Moderate eye irritation. Reddening may occur if exposure is prolonged.

Skin Contact: Irritant, may cause sensitisation by skin contact.

Ingestion: Low toxicity if swallowed, harmful effects are not expected from small quantities.

Chronic effects of overexposure:

Seek medical advice. Mild dermatitis may result from prolonged or repeated skin contact

12. Ecological Data

Prevent these products from entering storm-water drains sewers or waterways.
 Styrene is the major contaminant hazard in these formulations and it will undergo slow (but near complete) biodegradation in contact with soil. Styrene vapour degrades rapidly in the atmosphere.
 Styrene floats on water and will vaporise and biodegrade in small quantities.
 Toxic with short term and long-term hazard to aquatic organisms in large quantities.
 H402 Harmful to Aquatic life
 H411 Toxic to Aquatic life with long term effects

H401	Toxic to Aquatic Life
H411	Toxic to Aquatic Life with long term effects

13. Disposal Considerations

Waste Disposal: Small quantities of these products may be mixed with appropriate amounts of part A and allowed to solidify before disposal as solid waste. The best solution is to recover or recycle if possible. This material and its container must be disposed of as hazardous waste.

Any disposal must be labelled as such and comply with applicable local and national regulations.

Ensure that these materials do not enter drains, sewers or waterways. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

H501	Dispose of product and packaging in accordance with local regulations or through an approved waste disposal plant.
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Dangerous Goods Classification 8

Packing Group III

Hazchem Code 3X

14. Transport Information

UN Number:	2735
Proper Shipping Name:	Polyamines, Liquid, Corrosive, n.o.s. (Mixture contains Isophoronediamine)
Hazchem Code:	3X
Dangerous Goods Class:	8
Packing Group:	III
Tunnel Restriction:	
Environmental Hazard:	Marine Pollutant - Yes
Special Precautions for users:	223
EMS Number	F-A, S-B
IERG Code	153

15. Regulatory Information

EPA New Zealand HSNO approval code HSR002658, Surface Coatings and Colourants (Corrosive) Group Standard 2017.

SDS To be available within 10 minutes when required.

16. Other Information

This SDS contains only safety-related information. For other data see product information literature.

LEL	Lower explosive limit
UEL	Upper explosive limit
TWA	Time weighted average over 8 hr working day
STEL	Short term expose limit
Cas #	Unique registered number for chemicals
ppm	parts per million

UN number	Individual number assigned to hazardous materials
EMS	Emergency response for shipping
ERG	Emergency code for first responders
Other References	Supplier/Manufacturers SDS's

Review: 28 January 2021

Reason: Updates and pictograms

Disclaimer: The information given in this safety data sheet is given in good faith and is believed to be valid and accurate at the time of publication. However, no responsibility is accepted for accident or injury which may occur from omissions or from information contained in the data sheet. Before using any product read its label.

HS Composites 04/21