

SAFETY DATA SHEET

THERMALLY CONDUCTIVE EPOXY HARDENER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: THERMALLY CONDUCTIVE EPOXY HARDENER

PART No.: EER2074B

SUPPLIER: H K WENTWORTH PTY LIMITED
P.O. BOX 339
BROOKVALE, NSW 2100
AUSTRALIA
Tel: 02 9938 1566
Fax: 02 9938 1566

2. COMPOSITION/INFORMATION ON INGREDIENTS:

NAME	EINECS Nr.:	CLASSIFICATION	CONTENT
CAS No.: Salicylic acid 69-72-7	200-712-3	Xn R-22, 36	1-5 %
NONYLPHENOL 25154-52-3	246-672-0	C ,N R-22, 34, 50/53	5-10 %
ISOPHORONEDIAMINE 2855-13-2	220-666-8	C R-21/22, 34, 43, 52/53	60-100 %

The Full Text for all R-Phrases are Displayed in Section 16

3. HAZARDS IDENTIFICATION:

Harmful in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

HAZARDOUS SUBSTANCE: DANGEROUS GOODS

4. FIRST AID MEASURES:

INHALATION: Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air.

INGESTION: DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink plenty of water. Get medical attention immediately!

SKIN: Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYES: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire. Fire can be extinguished

using: Water spray. Foam. Alcohol resistant foam. Carbon dioxide (CO₂).

HAZARDOUS COMBUSTION PRODUCTS:

Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Ammonia or amines. Nitrous gases (NO_x).

6. ACCIDENTAL RELEASE MEASURES:

SPILL CLEANUP METHODS:

DO NOT touch spilled material.
Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer. Clean-up personnel should use respiratory and/or liquid contact protection.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

STORAGE PRECAUTIONS:

Keep in cool, dry, ventilated storage and closed containers. Keep in original container.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

PROTECTIVE EQUIPMENT:



VENTILATION:

Provide adequate general and local exhaust ventilation.

RESPIRATORS:

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).

PROTECTIVE GLOVES:

Protective gloves should be used if there is a risk of direct contact or splash.

EYE PROTECTION:

Use approved safety goggles or face shield.

OTHER PROTECTION:

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENIC WORK PRACTICES:

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. No eating or drinking while working with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:

Liquid.

COLOUR:

Colourless.

BOILING POINT (°C, interval):

247

Pressure:

MELT./FREEZ. POINT (°C, interval):

10

DENSITY/SPECIFIC GRAVITY (g/ml):

0.930

Temperature (°C):

20

SOLUBILITY DESCRIPTION:

Miscible with water.

FLASH POINT (°C):	112	Method:	CC (Closed cup).
AUTO IGNITION TEMP. (°C):	380		
FLAMMABILITY LIMIT - LOWER(%):	1.2		

10. STABILITY AND REACTIVITY:

STABILITY:	Normally stable.
CONDITIONS TO AVOID:	Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.
HAZARDOUS DECOMP. PRODUCTS:	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Ammonia or amines.

11. TOXICOLOGICAL INFORMATION:

INHALATION:	High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.
INGESTION:	Harmful if swallowed.
SKIN:	Causes burns. May cause sensitisation by skin contact. Product has a defatting effect on skin. Prolonged or repeated contact leads to drying of skin. May cause allergic contact eczema.
EYES:	Spray and vapour in the eyes may cause irritation and smarting. May cause chemical eye burns.

12. ECOLOGICAL INFORMATION:

LC 50, 96 HRS, FISH mg/l:	110
EC 50, 48 HRS, DAPHNIA, mg/l:	44
IC 50, 72 HRS, ALGAE, mg/l:	37
ECOLOGICAL INFORMATION:	Dangerous for the environment if discharged into watercourses.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS:	Dispose of in accordance with Local Authority requirements.
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14. TRANSPORT INFORMATION:

LABEL FOR CONVEYANCE:



UN No. ROAD:	2735
UK ROAD TRANSPORT CLASS:	8

UK ROAD PACK GR.:	III
ADR CLASS No.:	8
ADR CLASS:	Class 8: Corrosive substances.
ADR ITEM No.:	III
ADR MARGINAL:	2801
ADR LABEL No.:	8
HAZCHEM CODE:	2X
CEFIC TEC(R) No.:	80GC9-II+III
PROPER SHIPPING NAME I:	CORROSIVE LIQUID, N.O.S. (ISOPHORONEDIAMINE, NONYLPHENOL)
RID CLASS No.:	8
RID ITEM No.:	III
UN No. SEA:	1760
IMDG CLASS:	8
IMDG PAGE No.:	8109-2 (UK)
IMDG PACK GR.:	III
EmS No.:	F-A; S-B
MFAG TABLE No.:	See Guide
MARINE POLLUTANT:	No.
UN No., AIR:	1760
ICAO CLASS:	8
AIR PACK GR.:	III

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:



RISK PHRASES:	R-21/22 Harmful in contact with skin and if swallowed. R-34 Causes burns. R-43 May cause sensitisation by skin contact. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
SAFETY PHRASES:	S-24/25 Avoid contact with skin and eyes. S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
STATUTORY INSTRUMENTS:	Chemicals (Hazard Information and Packaging) Regulations.
APPROVED CODE OF PRACTICE:	Classification and Labelling of Substances and Preparations Dangerous for Supply.
GUIDANCE NOTES:	Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16. OTHER INFORMATION:

USER NOTES:	CN No 39073000
REVISION COMMENTS:	Revised in accordance with CHIP3 and EU Directive 1999/45/EC
ISSUED BY:	Helen O'Reilly
REVISION DATE:	MAY 2003
REV. No./REPL. SDS GENERATED:	0
SDS No.:	10633
DISCLAIMER:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. The information contained in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification
R-PHRASES (Full Text):	R-21/22 Harmful in contact with skin and if swallowed. R-34 Causes burns. R-43 May cause sensitisation by skin contact. R-52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-22 Harmful if swallowed. R-36 Irritating to eyes. R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.