

# SAFETY DATA SHEET

## ALOCIT H1 HARDENER



### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**PRODUCT NAME:** ALOCIT H1 HARDENER  
**PRODUCT NO:** AS33051A  
**SUPPLIER:** A&E SYSTEMS LIMITED, 3 CHARLES WOOD ROAD, DEREHAM, NR19 1SX, UK  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS No.:	EINECS Nr.:	CLASSIFICATION	CONTENT
Trimethylhexamethyldiamine	25620-58-0		C R-22, 34, 43	10-30%
ISOPHORONEDIAMINE	2855-13-2	220-666-8	C R-21/22,34,43,52/53	10-30%
EPOXY RESIN (Number average MW <= 700 )	25068-38-6	500-033-5	Xi ,N R-36/38, 43, 51/53	10-30%
OXIRANE, MONO [[C12-14- ALKYL OXY] METHYL] DERVIS	68609-97-2		Xi R-38, 43	1-5%
BENZYL ALCOHOL	100-51-6	202-859-9	Xn R-20/22	10-30%
Salicylic acid	69-72-7		Xn R-22, 36	1-5%

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

### 3. HAZARDS IDENTIFICATION

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

NOTE: All information relates to unmixed hardener - see resin MSDS for further information on product before use. Mixed and cured product is inert, environmental risk from cured product is negligible - see Section 16.

### 4. FIRST AID MEASURES

**INHALATION:** Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

**INGESTION:** DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Get medical attention immediately!

**SKIN:** Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Do not use organic solvents. Get medical attention if any discomfort continues.

**EYES:** Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention promptly if symptoms occur after washing.

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foam. Dry chemicals, sand, dolomite etc.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use special protective clothing. Regular protection may not be safe. Avoid breathing fire vapours. If risk of water pollution occurs, notify appropriate authorities.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Fire causes formation of toxic gases. Vapours are heavier than air and may spread near ground to sources of ignition.

**HAZARDOUS COMBUSTION PRODUCTS:** Fire or high temperatures create: Toxic gases/vapors/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL CLEANUP METHODS:** Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Runoff or release to sewer, waterway or ground is forbidden.

## 7. HANDLING AND STORAGE

**USAGE PRECAUTIONS:** Avoid spilling, skin and eye contact.

**STORAGE PRECAUTIONS:** Keep in cool, dry, ventilated storage and closed containers.

**STORAGE CRITERIA:** Chemical storage.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**INGREDIENT NAME:** BENZYL ALCOHOL

**CAS NO.:** 100-51-6

**STD:**

**LT EXP 8Hrs: No std**

**ST EXP 15 Min: No std**

**PROTECTIVE EQUIPMENT:**



**PROCESS CONDITIONS:** Provide eyewash station.

**VENTILATION:** Provide adequate general and local exhaust ventilation.

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

**EYE PROTECTION:** Wear approved safety goggles.

**OTHER PROTECTION:** AVOID ALL SKIN AND RESPIRATORY CONTACT! Wear appropriate clothing to prevent any possibility of skin contact.

**HYGIENIC WORK PRACTICES:** Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOUR/TASTE:** Amine.

## 10. STABILITY AND REACTIVITY

**STABILITY:** Normally stable. Avoid: Contact with acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Toxic gases/vapours/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

## 11. TOXICOLOGICAL INFORMATION

**INHALATION:** Vapour may irritate respiratory system or lungs.

**INGESTION:** Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

**SKIN:** Irritating to skin. May cause sensitisation by skin contact.

**EYES:** Irritation of eyes and mucous membranes.

**MEDICAL SYPTOMS:** Mild intoxication (incl. fatigue, lassitude, irritability, headache, nausea).

## 12. ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS:** Dispose of in accordance with Local Authority requirements.

## 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 PACK GR.	III
HAZARD No. (ADR):	80 Corrosive or slightly corrosive
ADR LABEL No.:	8
HAZCHEM CODE:	3X
CEFIC TEC(R) No.:	80GC7-11+111
PROPER SHIPPING NAME I:	AMINES, LIQUID, CORROSIVE, N.O.S OR POLYAMINES, LIQUID, CORROSIVE, N.O.S (ISOPHORONEDIAMINE
RID CLASS No.:	8
RID PACK GR.	III
UN No. SEA:	2735
IMDG CLASS:	8
IMDG PACK GR.:	III
EmS No.:	8-05
MFAG TABLE No.:	See Guide
MARINE POLLUTANT:	No.
UN No., AIR:	2735
ICAO CLASS:	8
AIR PACK GR.:	III

## 15. REGULATORY INFORMATION

**LABEL FOR SUPPLY:**



Harmful



Dangerous for  
the environment

**RISK PHRASES:** R-20/21/22 Harmful by inhalation, 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.

**SAFETY PHRASES:** P-5 Contains epoxy constituents. See information supplied by the manufacturer.  
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-27 Take off immediately all contaminated clothing.  
S-36/37/39 Wear suitable 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)  
S-60 This material and its container must be disposed of as hazardous waste.  
S-61 Avoid release to the environment. Refer to special instructions/  
Safety Data Sheets.

**UK REGULATORY REFERENCES:** Chemicals (Hazard Information & Packaging) Regulations 1993.

**APPROVED CODE OF PRACTICE:** Safety Data Sheets for Substances and Preparations L62. Classification and Labelling of Substances and Preparations Dangerous for Supply.

## 16. OTHER INFORMATION

**RISK-PHRASES (Full Text):** R- 21/22 harmful in contact with skin and if swallowed. R-34 Causes burns. R-36/38 Irritating to eyes and skin. 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-38 irritating to skin. R-20/22 Harmful by inhalation and if swallowed. R-36 Irritating to eyes. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Uncured Resin:** All risk statements refer to unmixed resin product. Users should also check MSDS for hardener before mixing and be aware that, once resin and hardener are mixed and cured, product is inert.

**Cured product:** Solidified (cured) epoxy products are inert and relatively harmless, traces of residual components may be left on the surface. Abrading or sanding cured coatings will generate dust or particles that should not be inhaled or ingested, wet surfaces where possible before abrading. Provide ventilation, wear a suitable mask, gloves and cover exposed skin to prevent contact with the dust.

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