



Irritant

Triton Chemical Manufacturing Co. Ltd

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MSDS Ref:

Publication date

Revision date

26/02/2002

**1. PRODUCT NAME: TRISEAL - RESIN (Part 1)****2. COMPOSITION**

Hazardous ingredient	CAS No.	EC No.	Weight %	Symbols	Risk Phrases
Bisphenol A and F epoxy Resins	25068-38-6		} <60%	Xi (Irritant)	R36/38,43
Alkylglycidylether	54208-63-8				
	68081-84-5	2683582	<15%	Xi (Irritant)	R36/38,R43,R51/53

3. HAZARD IDENTIFICATION

Irritant

Irritant

Irritating to skin and eyes.

May cause sensitisation by skin contact.

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

4. FIRST AID

CONTACT WITH SKIN	Wash with plenty of soap and water.
CONTACT WITH EYES	Wash out with water for several minutes and seek medical advice.
INGESTION	Seek medical advice in the event of discomfort.
INHALATION	Remove to fresh air if fumes cause irritation of nose or throat.
OTHER INFORMATION	May aggravate existing respiratory problems.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Dry powder or foam. For small fires use CO ₂ . Never use water jet.
SPECIAL PROTECTIVE EQUIPMENT	For fires in confined spaces, use breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear suitable protective clothing appropriate to the amount involved, which may include eye/face protection, PVC or synthetic rubber gloves, protective footwear, overalls.
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ENVIRONMENTAL PRECAUTIONS	Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.
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(Contd.)

6.ACCIDENTAL RELEASE MEASURES (contd.)

CLEAN-UP PROCEDURES Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.

7.HANDLING AND STORAGE

HANDLING PRECAUTIONS Observe good hygiene standards and minimise skin contact. Wear suitable protective clothing according to item 8. Avoid open flames and sources of ignition.

STORAGE INFORMATION Keep containers tightly closed in a cool place, out of direct sunlight. Keep stored well ventilated.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION



Where prolonged or repeated exposure is likely, protective clothing should be worn, including eye protection and PVC or synthetic rubber gloves. Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke whilst handling the product. Do not wear contaminated clothing. Ventilate confined spaces thoroughly.

EXPOSURE LIMITS None prescribed in EH40
Slight irritant, not considered hazardous.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red liquid	Oxidising properties	None
Odour	Faint	Vapour pressure	No data
pH	N/A	Relative density	1.13 (25°C)
Boiling point	>200°C	Bulk density	Not relevant
Melting point	Not Relevant	Viscosity	No data
Flash point	>150C	Solubility	Insoluble in water
Autoignition temperature	No data	Partition coefficient	No data
Explosive properties	No data	Other data	

10.STABILITY/REACTIVITY

STABILITY Stable under normal conditions of use.

CONDITIONS TO AVOID High temperatures (degrades resin).

MATERIALS TO AVOID Strong oxidising agents, strong acids and bases.

16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

Abbreviations: OES – occupational exposure standard. STEL – short-term exposure limit. LTEL – long term exposure limit. TWA – time weighted (8 hour) average. LEL – lower explosive limit. UEL – upper explosive limit.



Corrosive

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1. PRODUCT NAME: TRISEAL – HARDENER (Part 2)

2. COMPOSITION

Hazardous ingredient	CAS No.	Weight %	Symbols	Risk Phrases
Tris-2,4,6(Dimethyl amino methyl) phenol	90-72-2	<5.0%	Xn	R22-36/38
Bis(Dimethyl amino methyl) phenol	71074-89-0	<1.0%	Xn	R22-36/38
Alkylated polyamine adduct		<90%	C (Corrosive)	R21/22,34, 42/43

3. HAZARD IDENTIFICATION



Corrosive

Corrosive – Causes burns.
 Harmful if swallowed.
 May cause sensitisation by skin contact.

4. FIRST AID

CONTACT WITH SKIN	Wash with plenty of soap and water. If irritation persists, obtain medical advice.
CONTACT WITH EYES	Wash out with water for several minutes and seek medical advice.
INGESTION	Give plenty of water – if possible, charcoal slurry. Do not induce vomiting.
INHALATION	Remove to fresh air. If symptoms persist, seek medical advice.
OTHER INFORMATION	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Dry powder, fog or foam. For small fires use CO ₂ . DO NOT use high pressure water jet.
SPECIAL PROTECTIVE EQUIPMENT	Full protective equipment. Toxic and irritant fumes may be produced.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear suitable protective clothing appropriate to the amount involved, which may include eye/face protection, PVC or synthetic rubber gloves, protective footwear, overalls. Avoid contact with eyes and skin.
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6.ACCIDENTAL RELEASE MEASURES (contd.)

ENVIRONMENTAL PRECAUTIONS	Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.
CLEAN-UP PROCEDURES	Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.

7.HANDLING AND STORAGE

HANDLING PRECAUTIONS	Ensure adequate ventilation in work areas. Keep away from sources of ignition – no smoking. Avoid contact with eyes and skin. Avoid inhaling vapour, ensure good ventilation.
STORAGE INFORMATION	Keep containers tightly closed in a cool place, out of direct sunlight. Keep stored well ventilated. Keep away from food and feeding stuffs.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION



Wear protective clothing, including eye protection and PVC or synthetic/rubber gloves. Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke whilst handling the product.



EXPOSURE LIMITS None prescribed in EH40

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown Liquid	Oxidising properties	None
Odour	Amine-like	Vapour pressure	< 8 hpa @ 25°C
pH	>7 (in water)	Relative density	1.01 (25°C)
Boiling point	Decomposes	Bulk density	Not relevant
Melting point	Not Relevant	Viscosity	No data
Flash point	>100°C (CC)	Solubility	Partially miscible with water
Autoignition temperature	No data	Partition coefficient	No data
Explosive properties	No data	Other data	Avoid contact with strong acids and oxidizers.

10. STABILITY/REACTIVITY

STABILITY	Stable under normal conditions of use.
CONDITIONS TO AVOID	High Temperatures, formation of aerosols, static discharges.
MATERIALS TO AVOID	Strong oxidising agents, acids and bases.

11. TOXICOLOGICAL INFORMATION

LD₅₀ (rat, oral): > 5000mg/kg (by calculation). Eye irritation (rabbit): corrosive. Skin irritation (rabbit): corrosive.

Dermal sensitisation (guinea pig): sensitiser

12. ECOLOGICAL INFORMATION

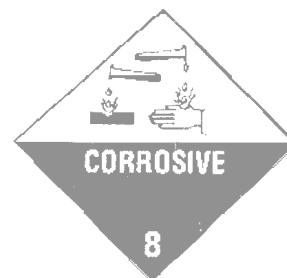
MOBILITY	Likely to be mobile in soil.
DEGRADABILITY	Readily biodegradable.
ACCUMULATION	There is little potential for bioaccumulation. Biomagnification is unlikely.
ECOTOXICITY	Harmful to aquatic organisms:

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT	Chemical residues are normally regarded as Special Waste. Incinerate in compliance with the Environmental Protection Act 1990 (Process Guidance Note IPR5/1)
DISPOSAL OF PACKAGING	As for the product.

14. TRANSPORT INFORMATION

UN NO.	2735
PROPER SHIPPING NAME	
ADR/RID	Class 8. Item 53(b)
IMCO	Class 8. IMDG Code page MFAG Table No. 320
	EmS No. 8-05
IATA/IACO	Class 8
PACKING GROUP	3
LABEL	Corrosive



15. REGULATORY INFORMATION

CLASSIFICATION Corrosive

LABEL INFORMATION

R34: Causes burns.

R21/22: Harmful in contact with skin and if swallowed.

R42/43: May cause sensitisation by inhalation and skin contact.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S28: After contact with skin, wash immediately with plenty of water and mild soap.

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

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