



Irritant

Triton Chemical Manufacturing Co. Ltd.

129 Felixstowe Road, Abbeywood, London SE2 9SG

Tel 020 8310 3929 Fax 020 8312 0349

info@triton-chemicals.com www.triton-chemicals.com



MSDS Ref: TR
300

Publication date
4/4/97

Revision date

1. PRODUCT NAME: **TRIMOL RESINS 15, 34, 35, 36, 40, 41**

2. COMPOSITION

Hazardous ingredient	CAS Nos.	Weight, %	Symbols	Risk Phrases
Bisphenol A and F epoxy Resins, diglycidyl ethers	25068-38-6, 68609-97-2, 28064-14-4	100	Xi (Irritant)	R36/38,43,51/53

3. HAZARD IDENTIFICATION



Irritant

Irritant
Irritating to skin and eyes

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 and overalls.
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(Contd.).

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 absorbents 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.
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, boots 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	Clear, golden liquid	Oxidising properties	None
Odour	Faint	Vapour pressure	1Pa (20°C)
pH	7 (50% suspension in water)	Relative density	1.2-1.13 (15°C)
Boiling point	Decomposes	Bulk density	Not Relevant
Melting point	Not Relevant	Viscosity	No data
Flash point	>150°C	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, acids and bases. Excess of hardener (uncontrolled polymerisation reaction).

11. TOXICOLOGICAL INFORMATION

Not available data on acute toxicity. Irritating to eyes. A mild skin irritant and mild sensitising agent.

12. ECOLOGICAL INFORMATION

MOBILITY	Low soil absorption.
DEGRADABILITY	Not easily biodegradable
ACCUMULATION	There is potential for bioaccumulation. Biomagnification is unlikely.
ECTOTOXICITY	Toxic to aquatic organisms: (TLm96: fish 1.2mg/litre, Daphnia 2.7 mg/litre, algae 9.4mg/litre)

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT:	Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations (incinerate or landfill).
DISPOSAL OF PACKAGING:	Uncleaned packaging should be treated as for the product.

14. TRANSPORT INFORMATION

UN No.	None assigned
PROPER SHIPPING NAME	Liquid epoxy resin
ADR/RID	Not classified as hazardous
IMCO	Not classified as hazardous MFAG Table No. EmS No.
IATA/IACO	Not classified as hazardous
PACKING GROUP	
LABEL	No hazard label

15. REGULATORY INFORMATION

CLASSIFICATION Irritant

LABEL INFORMATION

S24: Irritating to eyes and skin.

S26: May cause sensitisation by skin contact.

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

S37/39: Wear suitable gloves and eye/face protection.

Refer to other relevant legislation such as 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

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.

**Harmful****Triton Chemical Manufacturing Co. Ltd.**

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1.PRODUCT NAME: TRIMOL 40 HARDENER**2. COMPOSITION**

Hazardous ingredient	CAS Nos.	EC No.	Weight, %	Symbols	Risk Phrases
Amine-epoxy resin adduct	polymer		20	Xi (Irritant)	R22, 36/38

3.HAZARD IDENTIFICATION**Harmful**Harmful
Harmful if swallowed
Irritating to skin and eyes**4.FIRST AID**

CONTACT WITH SKIN	Wash with plenty of soap and water. Seek medical advice if irritation develops.
CONTACT WITH EYES	Wash out with water for several minutes and seek medical advice.
INGESTION	Give plenty of water to drink. Do not induce vomiting. Seek medical advice.
INHALATION	Remove to fresh air. Keep warm and at rest. Seek medical advice after significant exposure.
OTHER INFORMATION	Treat symptomatically.

5.FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Dry powder or foam. For small fires use CO ₂ .
SPECIAL PROTECTIVE EQUIPMENT	For fires in confined spaces, use breathing apparatus. Toxic and irritant fumes of oxides of nitrogen 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 and overalls.
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(Contd.).

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 absorbents 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.
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, boots 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	Viscous liquid	Oxidising properties	None
Odour	Slight, ammonia-like	Vapour pressure	2000Pa (20°C)
pH	9 (50% suspension in water)	Relative density	1.04 (15°C)
Boiling point	100°C	Bulk density	Not Relevant
Melting point	Solid below 0°C	Viscosity	Thixotropic
Flash point	No data	Solubility	Partially soluble 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	Protect from frost.
MATERIALS TO AVOID	Strong oxidising agents, acids.

11. TOXICOLOGICAL INFORMATION

Not available data on acute toxicity. Expected value from structurally related products:
LD₅₀ (acute, oral) 1000-4000 mg/kg.

Irritating to eyes.

12. ECOLOGICAL INFORMATION

MOBILITY	Mobile – avoid subsoil penetration.
DEGRADABILITY	Not easily biodegradable
ACCUMULATION	No evidence for bioaccumulation. Biomagnification is unlikely.
ECTOTOXICITY	No data

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT:	Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations (incinerate or landfill).
DISPOSAL OF PACKAGING:	Uncleaned packaging should be treated as for the product.

14. TRANSPORT INFORMATION

UN No.	None assigned
PROPER SHIPPING NAME	
ADR/RID	Not classified as hazardous
IMCO	Not classified as hazardous
	MFAG Table No.
	EmS No.
IATA/IACO	Not classified as hazardous
PACKING GROUP	
LABEL	No hazard label

15. REGULATORY INFORMATION

CLASSIFICATION Harmful

LABEL INFORMATION

R22: Harmful if swallowed.

R36/38: Irritating to eyes and skin.

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

S37/39: Wear suitable gloves and eye/face protection.

Refer to other relevant legislation such as 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.

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