

**Triton Chemical Manufacturing Co. Ltd.**

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Non-hazardous

MSDS Ref: TR

307

Publication date

15/4/97

Revision date

1.PRODUCT NAME: TRIMOL 15 FILLER**2. COMPOSITION**

An inert, light-weight inorganic filler consisting of aluminosilicate glass of particle size between 5 and 300 micrometres.

3.HAZARD IDENTIFICATION

There are no particular hazards associated with this product in normal use.

4.FIRST AID

CONTACT WITH SKIN

Wash with plenty of water or soap and water.

CONTACT WITH EYES

Wash out with water for several minutes. Seek medical advice.

INGESTION

Not likely to cause any adverse effects in the amounts which could be taken.

INHALATION

Remove to fresh air.

OTHER INFORMATION**5.FIRE-FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA As appropriate to surrounding fire

SPECIAL PROTECTIVE EQUIPMENT No particular requirements

6.ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear respiratory protection if large amounts of dust are generated.

ENVIRONMENTAL PRECAUTIONS

No environment hazard.

CLEAN-UP PROCEDURES

Sweep up and place in container for re-use or disposal to landfill.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS Observe normal industrial hygiene methods.

STORAGE INFORMATION Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The quantity of the Filler in the trimol 15 pack is not likely to present a risk in handling, but eye protection and respiratory protection may be used if the filler is handled frequently or in large amounts.

EXPOSURE LIMITS OES: 10mg/m³ total respirable dust (EH40)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light grey or buff powder	Oxidising properties	None
Odour	None	Vapour pressure	Not relevant
pH	Not relevant	Relative density	No data
Boiling point	Not relevant	Bulk density	350kg/m ³
Melting point	1350°C	Viscosity	Not relevant
Flash point	Not combustible	Solubility	Insoluble in water
Autoignition temperature	Not relevant	Partition coefficient	Not relevant
Explosive properties	Not explosive	Other data	

10. STABILITY/REACTIVITY

STABILITY Stable

CONDITIONS TO AVOID No special requirements

MATERIALS TO AVOID None

11. TOXICOLOGICAL INFORMATION

Not toxic

12.ECOLOGICAL INFORMATION

MOBILITY	Not mobile in the soil.
DEGRADABILITY	Inert, not biodegradable
ACCUMULATION	There is no likelihood of bioaccumulation or biomagnification.
ECTOTOXICITY	Not ecotoxic

13.DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT:	Dispose of by landfill in a commercial site, in accordance with local and national regulations.
DISPOSAL OF PACKAGING:	As for product.

14. TRANSPORT INFORMATION

Not regulated for transport by road, rail, sea or air.

15.REGULATORY INFORMATION

CLASSIFICATION	Not classified as hazardous.
LABEL INFORMATION	None

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.



Irritant

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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

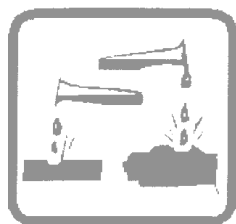
MOBILITY	Low soil absorption.
DEGRADABILITY	Not easily biodegradable
ACCUMULATION	There is potential for bioaccumulation. Biomagnification is unlikely.
ECTOTOXICITY	Toxic to aquatic organisms: (TLm96: fish 1.2mg/litre, Daphnia 2.7 mg/litre, algae 9.4mg/litre)

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



Corrosive

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MSDS Ref: TR 301	Publication date 4/4/97	Revision date 18/06/04
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1. PRODUCT NAME: TRIMOL HARDENER 15, 34, 35, 36

2. COMPOSITION

Hazardous ingredient	CAS Nos.	EC No.	Weight, %	Symbols	Risk Phrases
Trimethylhexamethylene diamine	25620-58-0	247-134-8	100	C (Corrosive)	R22,34,43,52/53

3. HAZARD IDENTIFICATION



Corrosive

Corrosive – Causes burns
 Harmful if swallowed
 May cause sensitisation by skin contact
 Harmful 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. 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 or foam. For small fires use CO ₂ . Never use 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 which may include eye/face protection, PVC or synthetic rubber gloves, protective footwear and overalls. Avoid contact with skin, eyes and clothing.
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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 absorbents 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. Handle and open container with care
STORAGE INFORMATION	Keep containers tightly closed in a cool place, out of direct sunlight. Keep store well ventilated. Keep away from food and feeding stuffs.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear protective clothing, including eye protection, boots and PVC or synthetic rubber gloves. In case of insufficient ventilation, wear suitable respiratory protective equipment.

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	Clear, colourless liquid	Oxidising properties	None
Odour	Amine-like	Vapour pressure	6Pa (20°C)
pH	11.3 (50% in water)	Relative density	0.86-0.87 (20°C)
Boiling point	>200°C	Bulk density	Not Relevant
Melting point	Not Relevant	Viscosity	5mPa.s (25°)
Flash point	>108°C (CC)	Solubility	Miscible with 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, formation of aerosols, static discharges.
MATERIALS TO AVOID	Strong oxidising agents, acids and bases.

11. TOXICOLOGICAL INFORMATION

LD₅₀ (rat, oral): 910mg/kg. Eye irritation (rabbit): corrosive. Skin irritation (rabbit): corrosive.

Dermal sensitisation (guinea pig): sensitiser.

12. ECOLOGICAL INFORMATION

MOBILITY	Avoid subsoil penetration
DEGRADABILITY	Not easily biodegradable
ACCUMULATION	There is potential for bioaccumulation. Biomagnification is unlikely.
ECTOTOXICITY	Toxic to aquatic organisms. (LC ₅₀ (fish) 96h: 1000mg/litre, EC ₅₀ (daphnia) 24h: 31.5mg/litre EC ₅₀ (algae) 72h: 29.5mg/litre), IC ₅₀ (bacteria) 3h: 100mg/litre.

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:	Uncleaned packaging should be treated as for the product. After cleaning, can be landfilled.

14. TRANSPORT INFORMATION

UN No.	2327
PROPER SHIPPING NAME	Trimethylhexamethylene diamines, solution
ADR/RID	Class 8. Item 53(c).
IMCO	Class 8. IMDG Code page 08243 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

R22: Harmful if swallowed.

R43: May cause sensitisation by skin contact.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

S45: In case of accident or if you feel unwell, seek medical advice (show the label where possible).

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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