



Chemical Manufacturing Co. Ltd.

C.O.S.H.H. PACK

**PROTECTIVE
COATINGS**

SECTION 4 :

PROTECTIVE COATINGS

- TRIMOL 40
- TRIPROOF AQ
- TRIPROOF 2
- TRIPROOF 290

**Irritant**

Triton Chemical Manufacturing Co. Ltd.
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MSDS Ref: TR
300Publication 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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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

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MSDS Ref: TR
304

Publication date
11/4/97

Revision date

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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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.

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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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.

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MSDS Ref: TR

Publication Date
07/06/2004

Revision Date

1. PRODUCT NAME: TRIPROOF AQ

2. COMPOSITIONEmulsion of silane/siloxanes

3. HAZARD IDENTIFICATIONNo particular hazards known

4. FIRST AID

AFTER INHALATION Ensure supply of fresh air.

AFTER CONTACT WITH SKIN In case of contact with skin wash off with soap and water.

AFTER CONTACT WITH EYES Flush eyes immediately and thoroughly with plenty of clean water.

AFTER INGESTION Call for medical advice immediately; show the container or label.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA Foam, Carbon dioxide, dry powder, water spray.

SPECIAL HAZARDS FROM THE
SUBSTANCE ITSELF, ITS
COMBUSTION PRODUCTS OR
FROM ITS VAPOURSIn the event of a fire the following can be released: Carbon
monoxide, carbon dioxide, silicon dioxide.SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS Do not inhale explosion and/or combustion gases.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Keep away from sources of ignition.

Use personal protective equipment.

ENVIRONMENTAL PRECAUTIONS Do not allow to enter drains or waterways.
Do not discharge into the subsoil/soil..METHODS FOR CLEANING
UP/TAKING UPTake up with absorbent material (e.g. sand, kieselguhr, universal
binder)
Dispose of absorbed material in accordance with local
regulations.

7. HANDLING AND STORAGE

HANDLING

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION Keep away from sources of ignition – No Smoking
Vapours may form explosive mixtures with air
Cool endangered containers by water spray

STORAGE

FURTHER INFORMATION Keep container tightly closed.

STORAGE STABILITY

OTHER DATA Storage period up to 6 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTION EQUIPMENT

HYGIENE MEASURES **Wash hands before breaks and after work.**

RESPIRATORY PROTECTION In case of formation of vapours/aerosol: short term; filter mask, filter A-P2

HAND PROTECTION PVC gloves

EYE PROTECTION Goggles with side pieces

SKIN AND BODY PROTECTION Light protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milk White, liquid

Odour: Slight, typical

PH: 7-8 at 25°C (as supplied)

Boiling point: Approx. 100°C

Flash point: >100°C

Density: Approx. 1g/cm³ at 25°C

Water Solubility: Miscible

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION Not measured

HAZARDOUS REACTIONS No hazardous reactions with proper storage and handling

HAZARDOUS DECOMPOSITION If left standing for a long time, alcohol may build up by hydrolysis

11. TOXICOLOGICAL INFORMATION

NOTE : Proper use provided, no adverse health effects have been observed or become known to us.

12. ECOLOGICAL INFORMATION

The product is considered to be a weak water pollutant.
Do not allow to enter soil, waterways or ditches.

13. DISPOSAL CONSIDERATIONS

PRODUCT	In accordance with local authority regulations, take to special waste incineration plant.
CONTAMINATED PACKAGING	Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration, landfill or recycling, according to the regulations

14. TRANSPORT INFORMATION

Not regulated for Land, Inland waterway, Sea or Air transport.

15. REGULATORY INFORMATION

CLASSIFICATION	Not classified No hazard warning label required
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16. OTHER INFORMATION

For use, after dilution with water as a masonry water repellent.

**HARMFUL****Triton Chemical Manufacturing Co. Ltd**

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MSDS Ref: TR203

Publication date

Revision date

02/03/97

09/03/04

1. PRODUCT NAME: **TRIPROOF 2/290**

2. COMPOSITION

Hazardous ingredient	CAS No.	EC No.	Weight %	Symbols	Risk Phrases
De-aromatised white spirit	64742-48-9	265-150-3	92 - 94	Xn	R10, R65, R66
Silicone Resin			6 - 8		R10, R52, R53

3. HAZARD IDENTIFICATION

**HARMFUL**

Flammable

Harmful: May cause lung damage if swallowed

Repeated exposure may cause skin drying and cracking

4. FIRST AID

CONTACT WITH SKIN	Wash with plenty of soap and water.
CONTACT WITH EYES	Wash out with water for several minutes. If redness and/or irritation persist, seek medical advice
INGESTION	Rinse the mouth (do not swallow), and give milk to drink. Medical advice DO NOT INDUCE VOMITING.
INHALATION	Remove to fresh air if fumes cause irritation of nose or throat.
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. Flash point 40°C.
SPECIAL PROTECTIVE EQUIPMENT	For fires in confined spaces, use breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear suitable protective clothing including appropriate to the amount involved, may include eye/face protection, PVC or synthetic rubber gloves, protective footwear, overalls.
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(Cont'd)

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 store well ventilated. Exclude atmospheric moisture from product.

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.

If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with a suitable cartridge.

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	LTEL for solvent: 1000mg/m ³ (8 hr. TWA)
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless liquid	Oxidising properties	None
Odour	Paraffinic	Vapour pressure	< 10 mbar @ 37.8°C
PH	Not relevant	Relative density	0.78 (15°C)
Boiling point	160° to 200°C	Bulk density	Not relevant
Melting point	Not relevant	Viscosity	1.3cS @ 20°C
Flash point	40°C	Solubility	Insoluble in water
Autoignition temperature	230°C	Partition coefficient	No data
Flammability limits	LEL 0.6%,UEL 8.0%	Other data	Aromatic content 0.4% vol, typically

10. STABILITY/REACTIVITY

STABILITY	Stable under normal conditions of use. (Protect from heat and ignition sources)
CONDITIONS TO AVOID	No special requirements
MATERIALS TO AVOID	Strong oxidising agents, strong acids/alkalis and halogens

11. TOXICOLOGICAL INFORMATION

Toxicity following a single exposure to high levels of the solvent component is of a low order. Prolonged and repeated contact may cause drying of the skin and possibly dermatitis. Prolonged inhalation of spray mist may cause inflammation of the lungs. The major hazard is lung damage from aspiration – medical supervision for 24-48 hours is recommended if aspiration could have occurred.

LD₅₀ oral (rat) >5g/kg. LD₅₀ dermal (rabbit) >5g/kg.

12. ECOLOGICAL INFORMATION

MOBILITY	The solvent is volatile, and the active ingredient decomposes in contact with water, becoming fixed in the soil.
DEGRADABILITY	Biodegrades slowly. If admitted with care into adapted bio-treatment plants, no adverse effects on the live sludge are to be expected.
ACCUMULATION	Has the potential to bioaccumulate. Log Pow = 4.07
ECOTOXICITY	Solvent is classed as non-toxic. Silicone is moderately toxic.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT	Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations. Can be burned in domestic refuse incinerators in accordance with local regulations.
DISPOSAL OF PACKAGING	Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration or landfill, according to regulations.

14. TRANSPORT INFORMATION

UN No	1993
PROPER SHIPPING NAME	FLAMMABLE LIQUID, NOS. Triproof 2/290, contains 92 - 94% white spirit
EMERGENCY ACTION CODE	3Y
ADR/RID	Class 3. Item 31(c)
IMCO	Class 3.3 IMDG Code page MFAG Table No. EmS No.

14. TRANSPORT INFORMATION (Cont'd)

IATA/IACO	Class 3.2
PACKING GROUP	3
LABEL	Flammable

15. REGULATORY INFORMATION

CLASSIFICATION	Harmful: may cause lung damage if swallowed Flammable Repeated exposure may cause skin cracking and drying
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LABEL INFORMATION

PRECAUTIONS

Keep out of the reach of children

Do not breathe vapour/spray

Avoid contact with skin

In case of fire use foam/dry powder/CO₂ Do not use water

Avoid release to the environment

If swallowed, do not induce vomiting, seek medical advice immediately and show the container or label.

Use only in well-ventilated areas.

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.

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16. OTHER INFORMATION

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