



**CORROSIVE**

MSDS Ref:  
TR 306

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## Triton Systems

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## 1. PRODUCT NAME:

# TRIFIX ADHESIVE - HARDENER

## 2. HAZARD IDENTIFICATION



CORROSIVE

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

## 3. COMPOSITION

### HAZARDOUS INGREDIENT

Bisphenol A and F epoxy

Triphenol phosphate

Alkylated polyamine adduct

CAS No.	EC No.	Weight %	Symbols	Risk Phrases
111-40-0	203-865-4	7.3	C (Corrosive)	R21/22,34,43
101-02-0	202-908-4	10.3	Xi (Irritant)	R36/38
		30.6	C (Corrosive)	R21/22,34,43

## 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 <sub>2</sub> . DO NOT use halones.
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.
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. Do not break open the dispenser cartridge.

### 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	Red Paste
Odour	Amine Like
pH	> 7 (in water)
Boiling Point	Decomposes
Melting Point	Not Relevant
Flash Point	> 100°C (CC)
Autoignition temperature	No data
Explosive properties	No data

Oxidising Properties	None
Vapour Pressure	No data
Relative density	1.2 (25°C)
Bulk density	Not Relevant
Viscosity	No Data
Solubility	Partially miscible with water
Partition Coefficient	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, strong acids and bases.

## 11. TOXICOLOGICAL INFORMATION

LD<sub>50</sub> (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:

Toxic 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.

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### 14. TRANSPORT INFORMATION

UN NO.	2327
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



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### 15. REGULATORY INFORMATION

CLASSIFICATION	Corrosive
SAFETY PHRASES	R34: Causes burns R22: Harmful if swallowed. R43: May cause sensitisation by 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.

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.

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### 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.*



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### IRRITANT

#### 1. PRODUCT NAME:

## TRIFIX ADHESIVE - RESIN

#### 2. HAZARD IDENTIFICATION



IRRITANT



Dangerous to  
the Environment

Irritant  
Irritating to skin and eyes.

#### 3. COMPOSITION

Hazardous ingredient	CAS No.	Weight %	Symbols	Risk Phrases
Bisphenol A and F epoxy Resins, diglycidyl	25068-38-6, 28064-14-4 68609-97-2	56	Xi (Irritant)	S24,S26,S28,S37/39 R51/53

#### 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 <sub>2</sub> . 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.
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

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	Beige, thixotropic liquid.
Odour	Faint
pH	7 (50% suspension in water)
Boiling Point	Decomposes
Melting Point	Not Relevant
Flash Point	> 150°C
Autoignition temperature	No data
Explosive properties	No data

Oxidising Properties	None
Vapour Pressure	1Pa (20°C)
Relative density	1.7 (25°C)
Bulk density	Not Relevant
Viscosity	No Data
Solubility	Insoluble in water
Partition Coefficient	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.  
Excess of hardener (uncontrolled polymerisation reaction).

## 11. TOXICOLOGICAL INFORMATION

No 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.

### ECOTOXICITY:

Toxic to aquatic organisms.



## 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.

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## 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	None assigned
LABEL	Marine pollutant

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## 15. REGULATORY INFORMATION

CLASSIFICATION Irritant

SAFETY PHRASES 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.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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