

# MATERIAL SAFETY DATA SHEET

102 1001A

## Cretex EP – Part A



### SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **CRETEx EP – PART A**  
 Company Name: Polycote UK  
 Centre Point • Wolseley Road  
 Woburn Road Industrial Estate  
 Kempston • Beds MK42 7EF  
 Telephone Number: 01234 846400

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Liquid Epoxy Resins and a reactive diluent  
 Hazardous Components:

#### Chemical Name

CAS No.	Classification	Conc.
Bisphenol-A-epichlorohydrin resin		
25068-38-6	R36/38, R43, R51/53	50-60%
Bisphenol-F-epichlorohydrin resin		
28064-14-4	R36/38, R43, R51/53	20-50%
Aliphatic Glycidylether		
68081-84-5	R36/38, R43,R51/53	10-30%

### SECTION 3: HAZARDS IDENTIFICATION

Main Hazard: Xi Irritant  
 N Dangerous for the environment  
 Eyes: May cause irritation.  
 Skin: May cause irritation and possible sensitisation by skin contact.  
 Ingestion: Not expected to have adverse effects.  
 Inhalation: Remove from contaminated atmosphere and seek medical attention.  
 Delayed effects: Skin sensitisation upon prolonged or regular contact.  
 Environment: Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

### SECTION 4: FIRST AID MEASURES

Eyes: Rinse open eye under running water for several minutes. Seek medical attention.  
 Skin: Remove contamination using proprietary resin removing cream and wash with soap and water. In case of prolonged irritation seek medical attention.  
 Inhalation: Remove from contaminated atmosphere and seek medical attention.  
 Ingestion: If swallowed give large quantities of water or milk. Do not induce vomiting. Seek medical advice.

### SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam, powder, carbon dioxide water spray or fog.  
 Unsuitable extinguishing media: Water with a full water jet  
 Special exposure hazards: Do not breathe smoke as may give off toxic fumes. Do not discharge extinguishing media into streams, rivers or lakes.  
 Protective equipment for fire-fighting: Wear self-contained breathing apparatus and full protective clothing.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate protective clothing (refer to section 8).  
 Environmental precautions: Prevent entering all drains, sewers and watercourses.  
 Clean-up procedures: Contain and absorb into inert material e.g. sand and treat as solid hazardous waste.

### SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes (refer to section 8 for appropriate protective clothing). Wash thoroughly after handling.  
 Conditions for storage: Keep in tightly sealed containers, and store in a cool, dry place, avoiding exposure to heat, light, moisture and air.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure: None established  
 Engineering controls: If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentrations below acceptable levels.  
 Eye protection: Safety glasses or goggles  
 Skin protection: Protective overalls  
 Hand protection: Impervious gloves  
 Respiratory protection: Not normally required. In a confined space wear half mask respirator with organic vapour cartridge with built in particulate filter NPF 20 (gas only). If applied by spray Wear self contained breathing apparatus.

### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Pale yellow liquid  
 Odour: Slight  
 Boiling Point/ Range: > 150°C  
 Melting Point/ Range: Not determined  
 Flash Point: > 150°C  
 Flammability: Combustible  
 Auto-flammability: > 400°C  
 Explosive Properties: N/A  
 Oxidising Properties: N/A  
 Vapour Pressure: >0.1mbar at 20°C  
 Relative Density: 1.16 g/cm<sup>3</sup> at 20°C  
 Water Solubility: 11.6 mg/L at 23°C  
 Fat Solubility: Not determined  
 Viscosity: 0.90 Pa.s at 25°C

### SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.  
 Conditions to avoid: Keep cool and dry.  
 Materials to avoid: Mineral acids, bases, amines and mercaptans.  
 Hazardous decomposition products: Oxides of carbon.  
 Hazardous polymerization: Will not occur.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

Eyes: Irritant  
 Skin: Irritant. May cause sensitisation by skin contact.  
 Inhalation: May cause irritation of nose, throat and lungs.  
 Ingestion: May be harmful if accidentally swallowed.

**SECTION 12: ECOLOGICAL INFORMATION**

Mobility: Not determined.  
 Degradability: Slightly biodegradable  
 Bioaccumulative potential: Not determined.  
 Ecotoxicity: Aquatic toxicity to bacteria, algae and higher marine organisms expected but not tested.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Product disposal: Remove according to local authority recommendations. Use licensed waste disposal contractor.  
 Container disposal: Remove according to local authority recommendations. Use licensed waste disposal contractor. Do not reuse containers without commercial cleaning.

**SECTION 14: TRANSPORT INFORMATION**

This preparation not listed as hazardous for transport. See Appendix 2 of British Supply List.

**SECTION 15: REGULATORY INFORMATION**

Label Information: Contains Bisphenol-A-epichlorohydrin resin. Average Molecular weight <700  
 Xi Irritant, N Dangerous for the environment.  
 Risk phrases: R36/38 Irritating to eyes and skin.  
 R43 May cause sensitisation by skin contact.  
 R51/53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.  
 Safety phrases: S2 keep out of reach of children.  
 S28 After contact with skin, wash immediately with plenty of soap and water.  
 S36/37/39 Wear suitable protective clothing, gloves and eye/ face protection.  
 S38 In case of insufficient ventilation wear suitable respiratory equipment.  
 S61 Avoid release to the environment Refer to special instructions/ Safety Data Sheets.

**SECTION 16: OTHER INFORMATION**

The information provided in this data sheet has been compiled in accordance with the requirements of the Chemicals (Hazard Information and Packaging) regulations Directive 93/112/EC.

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of Issue: July 2003

**Polycote UK**

Centre Point • Wolsley Road • Woburn Road Industrial Estate  
 Kempston • Beds • MK42 7EF  
 Technical Helpline: 01234 846400



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## Cretex EP – Part B



### SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **CRETEX EP – PART B**  
 Company Name: Polycote UK  
 Centre Point • Wolseley Road  
 Woburn Road Industrial Estate  
 Kempston • Beds MK42 7EF  
 Telephone Number: 01234 846400

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components:

Ingredient CAS No.	Classification	Conc.
Mannich base		
161278-17-7	C. R21/22 R34 R43	30-35%
M-xylene diamine		
1477-55-0	C. R20/22-R34	20-25%
Benzyl Alcohol		
100-51-6	Xn R20/22	30-40%
DEAPD		
621-56-7	Xi R36/37/38	5-10%
Diphenyl Propane		
80-05-7	Xi R36/37/38-R43	<5%

### SECTION 3: HAZARDS IDENTIFICATION

Main Hazard: C Corrosive  
 Xn Harmful  
 Eyes: Causes irritation or burns  
 Skin: May cause irritation or burns and possible sensitisation by skin contact.  
 Ingestion: Harmful if swallowed.  
 Inhalation: Vapour harmful if inhaled.  
 Delayed Effects: Skin sensitisation upon prolonged or regular contact.  
 Environment: Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

### SECTION 4: FIRST AID MEASURES

Eyes: Flush eye with water. Seek immediate medical attention.  
 Skin: Remove contaminated clothing and wash skin with soap and water. In the case of prolonged irritation seek immediate medical attention.  
 Inhalation: Remove from contaminated atmosphere if rapid recovery does not occur seek medical attention.  
 Ingestion: Give nothing by mouth. Do not induce vomiting. Seek immediate medical advice.  
 Advice to physicians: Skin irritation and chemical burns should be treated symptomatically. If skin sensitisation has developed and a casual relationship confirmed further exposure should not be allowed.

### SECTION 5: FIRE FIGHTING MEASURES

Specific Hazards: Hazardous combustion products may include oxides of nitrogen, carbon monoxide.  
 Suitable Extinguishing Media: Alcohol resistant foam, dry chemical powder, carbon dioxide, water spray or fog, sand or earth. Full water jet.  
 Unsuitable Extinguishing Media: Full water jet.  
 Special Exposure Hazards: Do not breathe smoke as may give off toxic fumes. Do not discharge extinguishing media into streams, rivers or lakes.  
 Protective Equipment for Fire-fighting: Wear self-contained breathing apparatus and full protective clothing.  
 Other information: Keep adjacent containers cool by spraying with water.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, and clothing. Do not breathe vapour. Take off immediately all contaminated clothing.  
 Personal Protection: Wear disposable one piece coated overall with integral hood, neoprene or nitrile rubber gloves, safety boots, rubber knee length, self contained breathing apparatus open circuit type NPF 2000  
 Environmental Precautions: Prevent entering all drains, sewers and watercourses. Do not allow to enter soil. Use sand earth or other barriers to keep away from drains ditches and rivers.  
 Clean-up Procedures: Cover spills with soil or sand. Place contaminated material in labelled, sealable metal containers for recovery or disposal. Place leaking containers in secure, labelled over containers Flush area with water spray, retain washings as contaminated waste.  
 Other information: Local authorities should be advised if significant spillage could not be contained. Observe all relevant local regulations.

### SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes (refer to section 8 for appropriate protective clothing). Do not breathe mist or vapours. Wash thoroughly after handling.  
 Conditions for storage: Keep in tightly sealed containers and store in a cool, dry place, avoiding exposure to heat, light, moisture and air. Maximum storage time 12 months.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure: If airborne contaminants are generated when the material is handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentrations below acceptable levels.  
 Engineering Controls:  
 Personal Protective Equipment  
 Eye Protection: Monogoggles  
 Skin Protection: Work clothes, PVC apron, safety boots – chemical resistant with out lace holes.  
 Hand Protection: Impervious gloves  
 Respiratory Protection: If there is risk of inhalation wear half mask respirator with organic vapour cartridge and built –in particulate filter npf 20 gas only.

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**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

Appearance:	Yellow liquid
Odour:	Aminic
pH:	12 (estimate)
Boiling Point/ Range:	205°C
Flash Point:	105°C
Flammability:	Not applicable
Auto-flammability:	> 380°C
Explosive Properties:	N/A
Oxidising Properties:	N/A
Vapour Pressure:	Not determined
Relative Density:	1.090 at 25°C
Water Solubility:	Partially soluble

**SECTION 10: STABILITY AND REACTIVITY**

Stability:	Stable. Hygroscopic.
Conditions to Avoid:	Exposure to water vapour
Materials to Avoid:	Strong oxidising agents, strong acids.
Hazardous Decomposition products:	None in normal storage conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Basis for assessment:	Information given is based on the components and toxicity of similar products
Acute Toxicity:	Oral: Moderate toxicity. 200 < LD50 < 2000 mg/kg (rat) (estimate). Dermal LD50: no data (rabbit) Inhalation: expected moderate toxicity 1 < LC50 < 5mg/l
Eye irritation:	Corrosive.
Skin irritation:	Corrosive. Expected sensitisation by skin contact.
Inhalation:	May cause irritation of nose, throat and lungs. Liquid vapour can cause burns.
Ingestion:	May be harmful if accidentally swallowed.

**SECTION 12: ECOLOGICAL INFORMATION**

Mobility:	Partly dissolve in water but significant part will remain after 1 day. If product enters soil one or more constituents will be mobile and may contaminate ground water.
Degradability:	Expected to be not readily biodegradable.
Bioaccumulation:	Contains components with potential to bioaccumulate.
Acute toxicity – fish:	Slight toxicity.
Acute toxicity – invertebrates:	Slight toxicity
Acute toxicity – algae:	Very toxic LC/EC/IC <= 1mg/l

**SECTION 13: DISPOSAL CONSIDERATIONS**

Product Disposal:	Remove according to local authority recommendations. Used licensed waste disposal contractor.
Container Disposal:	Remove according to local authority recommendations. Used licensed waste disposal contractor. Do not reuse containers without commercial cleaning.

**SECTION 14: TRANSPORT INFORMATION**

Land Transport Information:	UN Number: 1760. Class: 8. Packaging Group: III. RID/ADR Class: 8. Correct Technical Name: Corrosive liquid NOS (Contains Alkylamines). Hazard symbol: Corrosive.
Maritime Transport Information:	UN Number: 1760. Packaging Group: III. IMDG Class: 8. Marine Pollutant: No. Correct Technical Name: Corrosive liquid NOS (Contains Alkylamines). Hazard symbol: Corrosive.
Air Transport Information:	UN Number: 1760. Packaging Group: III. IATA Class: 8. Correct Technical Name: Corrosive liquid NOS (Contains Alkylamines). Hazard symbol: Corrosive.

**SECTION 15: REGULATORY INFORMATION**

Label Information:	Contains Alkylamines and Benzyl Alcohol C Corrosive, Xn Harmful Irritant.
Risk Phrases:	R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R34 Causes burns R36/37/38 Irritating to eyes, respiratory system and skin. R43 may cause sensitisation by skin contact.
Safety Phrases:	S2 keep out of reach of children. S28 After contact with skin, wash immediately with plenty of soap and water. S36/37/39 Wear suitable protective clothing, gloves and eye/ face protection. S38 In case of insufficient ventilation wear suitable respiratory equipment.

**SECTION 16: OTHER INFORMATION**

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

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