

Flortex Chemical Coat – Part A



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

Product Name: **FLORTEX CHEMICAL COAT – PART A**
 Company Name: Polycote UK
 Centre Point • Wolveley Road
 Woburn Road Industrial Estate
 Kempston • Beds MK42 7EF
 Telephone Number: 01234 846400

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components:

Chemical Name	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: > 140°C
 Flammability: Combustible
 Auto-flammability: > 200°C
 Explosive Properties: N/A
 Oxidising Properties: N/A
 Vapour Pressure: >0.1mbar at 20°C
 Relative Density: 1.16 g/cm³ 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

Acute toxicity:

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: Heavier than water.
 Other adverse affects: Toxic to aquatic organisms.
 Not expected to be toxic to
 sewage treatment
 Bioaccumulative potential: Bioaccumulation potential.

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

ADR RID	UN3082	CLASS 9	PACKING GROUP III
	Proper Shipping Name:		Environmentally Hazardous Substance Liquids Nos Epoxy Resin
IMDG IMO	UN3082	CLASS 9	PACKING GROUP III
			Marine Pollutant
IATA IMO	UN3082	CLASS 9	PACKING GROUP III

SECTION 15: REGULATORY INFORMATION

Label Information: Epoxy 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 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: March 2006

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MATERIAL SAFETY DATA SHEET

Flortex Chemical Coat – Part B

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

Product Name: **FLORTEX CHEMICAL COAT – 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: Liquid Epoxy Resins and a reactive diluent
Chemical Name

CAS No.	Classification	Conc.
Methylenedi (cyclohexylamine)		
1761-71-3	R37	<5%
Benzyl alcohol		
100-51-6	R20/21/22, R34, R43	30-50%

SECTION 3: HAZARDS IDENTIFICATION

Main Hazard: Xn Harmful
 Eyes: May cause irritation or burns.
 Skin: May cause irritation or burns and possible sensitisation by skin contact.
 Ingestion: Harmful if swallowed.
 Inhalation: Vapours are harmful if inhaled.
 Delayed Effects: Skin sensitisation upon prolonged or regular contact.
 Environment: Not determined.

SECTION 4: FIRST AID MEASURES

Eyes: Rinse open eye under running water for several minutes. Seek medical attention.
 Skin: Remove contaminated clothing and wash skin with water and soap. Seek medical attention. Treat chemical burns like burns. Contaminated leatherwear should be discarded.
 Inhalation: Remove from contaminated atmosphere and seek medical attention.
 Ingestion: If swallowed seek immediate medical attention. Remove stomach contents by gastric suction of by induced vomiting only as directed by a physician.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam, powder, carbon dioxide water spray. Also dry sand on small fires.
 Unsuitable extinguishing media: Water with a full water jet.
 Special exposure hazards: May generate toxic, irritating or flammable combustion products. May generate ammonia gas. Persons in vicinity and downwind should be evacuated.
 Protective equipment for fire-fighting: Wear self-contained breathing apparatus and butyl rubber boots and body suit.

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 sand, earth or spill control material and treat as solid hazardous waste. Scrub contaminated surfaces with water. Clean up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes (refer to section 8 for appropriate protective clothing). Wash thoroughly after handling. Do not drink or smoke whilst handling.
 Conditions for storage: Keep in tightly sealed containers and store in a cool, dry place, avoiding exposure to heat, light, moisture and air. Keep away from acids, alkalis and oxidisers.

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: Amber mobile liquid
 Odour: Ammoniacal
 pH: Alkaline
 Boiling Point/ Range: +220°C
 Melting Point/ Range: Not determined
 Flash Point: >+100°C
 Flammability: (Solid gas) not applicable
 Auto-flammability: No data
 Explosive Properties: N/A
 Vapour Pressure: <50 Pa. at +25°C
 Relative Density: 1.06 g/cm³ at +25°C
 Water Solubility: Slight (0.1-1%)

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SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Water vapour.
Materials to Avoid:	Mineral acids (e.g. sulphuric Etc.), Alkalis (e.g. Sodium Hydroxide etc.), Organic Acids (e.g Acetic etc.) Reducing agents, Oxidising agents, Reactive metals, Sodium or calcium hypochlorite. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed if the product comes into contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Reacts violently with peroxides. Reaction with acids may cause severe boiling creating a hot material splash hazard.
Hazardous decomposition products:	Are not expected during normal storage.
Hazardous polymerisation:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	Cycloaliphatic polyamine: Oral: LD50: 500mg/kg (rat)
Inhalation: LC50:	no data Dermal: LC50: >2800.00mg/kg (rbt) (Estimate)
Eyes:	Severe irritant
Skin:	Slight irritant. (Mild irritant to skin) (rbt)
Inhalation:	May cause irritation of nose, throat and lungs.
Ingestion:	May be harmful if accidentally swallowed.
Chronic effects:	No delayed, chronic, sub chronic data known.

SECTION 12: ECOLOGICAL INFORMATION

Waste from this product may present long term environmental hazards, thus landfill disposal must be considered less acceptable than incineration.

SECTION 13: DISPOSAL CONSIDERATIONS

Product disposal:	Remove according to local authority recommendations. Use licensed waste disposal contractor. Ensure that waste containers are clearly marked and that contractor is well informed as to contents.
Container disposal:	Remove according to local authority recommendations. Use licensed waste disposal contractor. Do not reuse containers without commercial cleaning.

SECTION 14: TRANSPORT INFORMATION

ADR/RID Shipping Data:	Not regulated.
IMO Shipping Data:	Not regulated.
IATA:	Not regulated.

SECTION 15: REGULATORY INFORMATION

Label Information: Xn Harmful
 Risk phrases: R20,21/22 Harmful by inhalation and if swallowed.
 R42 May cause sensitization by skin contact.
 Safety Phrases: S36/37 Wear suitable protective clothing, gloves.

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.

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Date of Issue: September 2005

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