

MATERIAL SAFETY DATA SHEET

340 0501

Flortex® ABC



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

Product Name: **FLORTEX® ABC**
 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*
 Bisphenol A-epoxy resin avg.mol.wght. <700
 50-100% 500-033-5 Xi; R36/38, R43, N; R51/53
 Bisphenol-F-epoxy resin avg.mol.wght. <700
 10-25% 500-006-8 Xi; R36/38, R43, N; R51/53
 C12-C15 Alkylglycidylether 68609-97-2
 10-25% 271-846-8 Xi; R36/38, R43
 See section 16 for full text of the R Phrases declared above.
 * Occupational Exposure Limit(s), if available, are listed in section 8

SECTION 3: HAZARDS IDENTIFICATION

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: R36/38 - Irritating to eyes and skin.
 R43 - May cause sensitization by skin contact.
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The preparation may be a skin sensitizer. It also might be a skin irritant and repeated contact might increase this effect.

SECTION 4: FIRST AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if irregular breathing, or respiratory arrest occurs provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

See section 11 for more detailed information on health effects and symptoms.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Recommended: alcohol resistant foam, CO₂, powders, water spray.
 Not to be used: waterjet.

Recommendations: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

Special fire fighting procedures: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Excludes sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

Spills: Contain and collect spillage with non-combustible absorbent materials. e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protective equipment (see section 8). Never use pressure to empty; container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws.

Storage: Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep away from: oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.

Hands: For prolonged or repeated handling, use gloves: nitrile. Barrier creams may help to protect the exposed areas of the skin, but should not be applied once exposure has occurred.

Skin and body: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Eyes: Use safety eyewear designed to protect against splash of liquids.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering measures: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Never eat, drink or smoke in work areas. Practice good personal hygiene when using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. It is generally recognised that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury. Apply water proof skin cream before beginning work. Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from shoes and clean personal protective equipment. After handling, always wash hands thoroughly with soap and water.

Occupational exposure limits: Not available.

Recommended monitoring procedures: No special measures are required. General ventilation is typically sufficient. Provide eye wash and quick drench shower close to work station.

Occupational exposure control: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protective equipment - Respiratory system: If workers are exposed to concentrations above the exposure limit, they must use appropriate certified respirators.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid.

Colour: Yellowish.

Odour: Odorless.

Specific gravity: 1.11 to 1.16 (Water = 1)

pH: Basic

Melting point: May start to solidify at -10°C (14°F) based on data for: Bisphenol-A-epoxy resin avg.mol.wght. <700

Boiling point: >200°C (392°F)

Auto-ignition temperature: >450°C (842°F)

Flash point: Closed cup: 177°C (350.6°F). Evolves toxic fumes when heated to the decomposition state. (Bisphenol-A-epoxy resin avg.mol.wght. <700)

Vapor pressure: <0.01 kPa (<0.1 mm Hg) (at 20°C)

Vapor density: >1 (Air = 1)

Evaporation rate: <1 compared to Butyl acetate.

Solubility: Insoluble in cold water, hot water.

Viscosity: Dynamic: The highest known value is 7000 to 10000 cP (Bisphenol-A-epoxy resin avg.mol.wght. <700) Weighted average: 6500 cP

Volatility (%): 0% (v/v). 0% (w/w).

VOC (W/W): 0 (g/l).

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

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SECTION 11: TOXICOLOGICAL INFORMATION

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Chapter 2 and 15 for details.

Based on the properties of epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and a severe irritant. It contains epoxy-based reactive diluents which are moderately to severely irritating to eyes, mucous membranes and skin and are strong sensitizers. Repeated skin contact may lead to irritation and to

hypersensitivity, possibly with cross-sensitization to other epoxies. Single oral exposure to doses of the epoxy-based reactive diluents at or close to the lethal dose has been shown to cause transient neurotoxic effects in animals in some cases. However, uptake through skin and by inhalation has not caused such effects in animals. Prolonged exposure to high concentrations may cause adverse effects in target organs such as the liver and kidneys.

Contains (Bisphenol-A-epoxy resin avg.mol.wght. <700, Bisphenol-F-epoxy resin avg.mol.wght. <700, Oxirane, mono [(C12-C16 alkyloxy)methyl] derivatives). May produce an allergic reaction.

Potential acute health effects:

Ingestion:	Ingestion may cause gastrointestinal irritation and diarrhea.
Inhalation:	Slightly hazardous in case of inhalation (lung irritant). Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.
Skin contact:	Hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May cause sensitization by skin contact. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Eye contact:	Hazardous in case of eye contact (irritant).
Other toxic effects on humans:	May cause sensitization by skin contact. May cause allergic skin reactions with repeated exposure. Repeated exposure may cause allergic skin rash, itching, swelling. The onset of symptoms may be delayed. Persons with a history of skin sensitization problems should not be employed in any process in which this preparation is used.

Acute Data (LD₅₀, LC₅₀) - Toxicity to Test Animals:

Ingredient name	Test	Result	Route	Species
Bisphenol-A-epoxy resin avg.mol.wght. <700	LD50	13600 mg/kg	Oral	Rat
	LD50	20000 mg/kg	Oral	Mouse
	LD50	>2000 mg/kg	Dermal	Rabbit

C12-C15 Alkylglycidylether	LD50	>10000 mg/kg	Oral	Rat
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Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Reproductive toxicity: No known significant effects or critical hazards.

SECTION 12: ECOLOGICAL INFORMATION

There is no data available on the preparation itself.

Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

Ecotoxicity date:

Ingredient name	Result	Period	Species
Bisphenol-A-epoxy resin avg.mol.wght. <700	fathead minnow	24 hour(s)	3.1 mg/l
	(pimephales promelas)		
	zebra fish	24 hour(s)	9.4 mg/l
	(brachydanio rerio)		
C12-C15 Alkylglycidylether	daphnia (EC50)	24 hour(s)	1 mg/l
	Daphnia (EC50)	48 hour(s)	1 to 10 mg/l

Ingredient name Persistence/ degradability Bioaccumulative potential

Bisphenol-A-epoxy resin avg.mol.wght. <700	Not readily	LogP _{ow} : >3 Potential: High
	Not readily	
Bisphenol-F-epoxy resin avg.mol.wght. <700	Not readily	
C12-C15 Alkylglycidylether		LogP _{ow} : >3 Potential: High

SECTION 13: DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

Methods of disposal: Type: Hazardous chemical waste.

Waste of residues: Location: European Union.

Contaminated

packaging: Classification: H12 (Environmentally hazardous).

Disposal.: via incineration.

Storage: *(No specific storage is required.

Use shelves or cabinets sturdy enough to

bear the weight of the chemicals. Be sure

that it is not necessary to strain to reach

materials, and that shelves are not

overloaded. Storage of controlled

substances must comply with applicable

regulatory security requirements.)

Recycling:* (Not applicable)

European waste cat: 080111

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SECTION 14: TRANSPORT INFORMATION

International transport regulations:

Regulatory Information	UN number	Proper shipping name	Class	Packaging Group	Additional information
ADR/RID Class	3082	Environmentally hazardous substance liquid, n.o.s. (Bisphenol-F-epoxy resin	9	III	Hazard identification number 90 Limited quantity LQ28 CEFIC Tremcard 90G01
IMDG Class	3082	Environmentally hazardous substance liquid, n.o.s. (Bisphenol-F-epoxy resin	9	III	
IATA-DGR Class	3082	Environmentally hazardous substance liquid, n.o.s. (Bisphenol-F-epoxy resin	9	III	

SECTION 15: REGULATORY INFORMATION

EU Regulations:	The product is labelled as follows, in accordance with local regulations:
Hazard symbol(s):	Irritant, Dangerous for the environment.
Risk Phrases:	R36/38 - Irritating to eyes and skin. R43 - May cause sensitization by skin contact. R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases:	S23 - Do not breathe spray. S25 - Avoid contact with eyes. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29 - Do not empty into drains. S36/37 - Wear suitable protective clothing and gloves. S51 - Use only in well-ventilated areas. S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.
Contains:	Bisphenol-A-epoxy resin avg.mol.wght. <700 500-033-5 Bisphenol-F-epoxy resin avg.mol.wght. <700 500-006-8 C12-C15 Alkylglycidylether 271-846-8
Product Use:	Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use. - industrial applications.
Additional warning phrases:	Contains epoxy constituents. See information supplied by the manufacturer. This information is provided by the current Safety Data Sheet.
EC Statistical classification (Tariff Code):	3907 30 00

SECTION 16: OTHER INFORMATION

Full text of R-phrases appearing in section 2:
R36/38 - Irritating to eyes and skin.
R43 - May cause sensitization by skin contact.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Designation of symbols in section 2:
Xi - Irritant
N- Dangerous for the environment.

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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