

OT Primer XFH – Part A



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

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

SECTION 2: HAZARDS IDENTIFICATION

Classification under CLP:

Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411.

Most important adverse effects:

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Hazard pictograms:



Signal word: Warning

Hazard statements: H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains: reaction product: bisphenol-A(epichlorhydrin) / epoxy resin (number average molecular weight ≤ 700)
 1,6-bis(2,3-epoxypropoxy)hexane
 bisphenol-F-epichlorhydrine; epoxy resins (molecular weight ≤ 700)
 glycidyl ether.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:

EINECS	CAS No:	Classification	Percent
REACTION PRODUCT: BISPHENOL-A(EPICHLORHYDRIN) / EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)			
500-033-5	25068-38-6	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	50 - 100%
BISPHENOL-F-EPICHLORHYDRINE; EPOXY RESINS (MOLECULAR WEIGHT ≤ 700)			
500-006-8	9003-36-5	Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	10 - 25%
1,6-BIS(2,3-EPOXYPROPOXY)HEXANE			
240-260-2	16096-31-4	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 3: H412	2,5 - 10%
GLYCIDYL ETHER			
268-358-2	68081-84-5	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411	2,5 - 10%

Full text of hazard phrases in section 16.

SECTION 4: FIRST AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Inhalation: Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Skin contact: Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Alcohol resistant foam, carbon dioxide, powder, spray mist (water).

Unsuitable media: Strong water jet.

Exposure hazards: Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

Advice for firefighters: Provide a conveniently located respiratory protective device.

Other information: Cool closed containers that are near the source of the fire. Co-ordinate fire-fighting measures to the fire surroundings. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from sources of ignition. Ventilated affected area. Do not breathe vapours. See protective measures under sections 7 and 8.

Environmental precautions: Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

Methods for cleaning up: Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Use appropriate container to avoid environmental contamination.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Only use the material in places where open light, fire and other flammable sources can be kept away. Always keep in containers that correspond to the material of the original container.

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SECTION 7: HANDLING AND STORAGE – Cont.

Storage: Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSIVO). Keep container tightly closed. Do not empty containers with pressure – no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Keep away from food, drink and animal feeding stuffs. Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5°C and 30°C. Protect from heat and direct sunlight.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

DNEL:
 1,6-bis(2,3-epoxypropoxy)hexane
 DNEL acute dermal, short-term (local), Workers: 2,26 mg/dm²
 DNEL long-term dermal (local), Workers: 2,26 mg/dm²
 DNEL long-term dermal (systemic), Workers: 2,8 mg/kg bw/day
 DNEL acute inhalative (systemic), Workers: 4,9 mg/m³
 DNEL long-term inhalative (local), Workers: 0.44 mg/m³
 DNEL long-term inhalative (systemic), Workers: 4,9 mg/m³
 bisphenol-F-epichlorhydrine; epoxy resins (molecular weight <= 700)
 DNEL long-term dermal (systemic), Workers: 104,15 mg/kg bw/day
 DNEL long-term inhalative (systemic), Workers: 29,39 mg/m³
 reaction product: bisphenol-A(epichlorhydrin) / epoxy resin (number average molecular weight ≤700)
 DNEL acute dermal, short-term (systemic), Workers: 8,33 mg/kg bw/day
 DNEL long-term dermal (systemic), Workers: 8,33 mg/kg bw/day
 DNEL acute inhalative (systemic), Workers: 12,25 mg/m³
 DNEL long-term inhalative (systemic), Workers: 12,25 mg/m³
PNEC:
 1,6-bis(2,3-epoxypropoxy)hexane
 PNEC aquatic, freshwater: 0,0115 mg/L
 PNEC aquatic, marine water: 0,0115 x10⁻¹ mg/L
 PNEC aquatic, intermittent release: 0,115 mg/L
 PNEC sediment, freshwater: 0,283 mg/kg
 PNEC sediment, marine water: 0,0294 mg/kg
 PNEC Soil: 0,237 mg/kg
 PNEC sewage treatment plant (STP): 10 mg/L
 reaction product: bisphenol-A(epichlorhydrin) / epoxy resin (number average molecular weight ≤700)
 PNEC aquatic, freshwater: 0,0006 mg/L
 PNEC aquatic, marine water: 0,0006 mg/L
 PNEC aquatic, intermittent release: 0,018 mg/L
 PNEC sediment, freshwater: 0,996 mg/kg
 PNEC sediment, marine water: 0,0996 mg/kg
 PNEC Soil: 0,196 mg/kg
 PNEC sewage treatment plant (STP): 10 mg/L
 PNEC Secondary Poisoning: 11 mg/kg

Exposure controls: Provide good ventilation. This can be achieved with local or room suction. When spraying, wear self-contained breathing apparatus.

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

Hand protection: For prolonged or repeated handling the following glove material must be used: nitrile rubber or butyl rubber. Thickness of the glove material >0,4mm; Breakthrough time (maximum wearing time) >480 min. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and

duration of exposure to skin. Recommended glove articles DIN EN 374.

Barrier creams can help protecting exposed skin areas. In no circumstances should they be used after contact.

Eye protection: Wear closely fitting protective glasses in case of splashes.

Protective clothing: Wear suitable protective clothing.

Protective measures: After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental: Do not allow to enter into surface water or drains.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

State: Liquid
Colour: Yellowish
Odour: Characteristic
Flash point: >101°C
Vapour pressure: 0,46 mbar @ 20°C
Relative density: 1.13 (Water = 1 @ 20 °C)
Water Solubility: Insoluble

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable when applying the recommended regulations for storage and handling.

Hazardous reactions: Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

Conditions to avoid: Hazardous decomposition byproducts may form with exposure to high temperatures.

Haz. decomp. products: Hazardous decomposition byproducts may form with exposure to high temperatures, e.g. carbon dioxide, carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:
 1,6-bis(2,3-epoxypropoxy)hexane
 oral, LD50, Rat: 2190 mg/kg
 glycidyl ether
 dermal, LD50, Rat: >10000 mg/kg
 bisphenol-F-epichlorhydrine; epoxy resins (molecular weight <= 700)
 oral, LD50, Rat: >2000 mg/kg
 reaction product: bisphenol-A(epichlorhydrin) / epoxy resin (number average molecular weight ≤ 700)
 oral, LD50, Rat: >10000 mg/kg

Practical experience/human evidence:
 Irritating to eyes and skin.
 May cause sensitization by skin contact.

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SECTION 12: ECOLOGICAL INFORMATION**Overall evaluation:**

There is no information available on the preparation itself.
Do not allow to enter into surface water or drains.

Long-term Ecotoxicity:

glycidyl ether

Fish toxicity, LC50, Leuciscus idus (golden orfe): 1 - 10 mg/L (96 h):
evaluation Toxic to aquatic life.

Daphnia toxicity, EC50: 1 - 10 mg/L (48 h)

bisphenol-F-epichlorhydrine; epoxy resin (molecular weight <= 700)

Fish toxicity, LC50, Leuciscus idus (golden orfe): >100 mg/L (96 h)

Fish toxicity, EC50, Leuciscus idus (golden orfe): >100 mg/L (96 h)

Daphnia toxicity, LC50: >100 mg/L (96 h)

reaction product: bisphenol-A-(epichlorhydrin) / epoxy resin (number
average molecular weight ≤ 700)

Fish toxicity, LC50, Leuciscus idus (golden orfe): 3,6 mg/L (96 h)

Daphnia toxicity, EC50: 2,8 mg/L (48 h)

Algae toxicity: ErC50: 220 mg/L (96 h)

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal operations: Do not allow to enter into surface water or drains.
Handle contaminated packages in the same way as the substance itself. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

Waste codes: 070208: other still bottoms and reaction residues.
Packaging: Non-contaminated packages may be recycled.
Vessels not properly emptied are special waste.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class: 9
Packing group: III
Environmental hazard: Yes
Marine pollutant: No
Tunnel category: E
EmS-No: F-A, S-F
Transport category: 3

SECTION 15: REGULATORY INFORMATION

EU legislation:

VOC-value (in g/L) ISO 11890-2: 1,132

According to EU-regulations 2004/42/EC (appendix II)

EU limit value for this product (cat. [Cat. A/j]): 550 g/L (2007) / 500 g/L (2010).

This product contains max 70,000 g/L VOC.

SECTION 16: OTHER INFORMATION

Phrases used

in s.2 and s.3: H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

EUH205: Contains epoxy constituents. May produce an allergic reaction.

All the foregoing information should be regarded as being applicable to the uncured mixed product as well as to the individual components.

This material may form part of a multi component pack, and is supplied in the correct proportions for that pack. Please check all of the product labels to ensure that the correct components and pack sizes are being used. Select and use appropriate pack sizes to minimise waste and operator exposure, do not split packs. Use in batch order.

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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MATERIAL SAFETY DATA SHEET

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OT Primer XFH – Part B



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

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

SECTION 2: HAZARDS IDENTIFICATION
Classification under CLP:

Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412.

Hazard pictograms:



Signal word: Danger

Hazard statements: H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.
 H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.
 P270: Do not eat, drink or smoke when using this product.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+312: IF SWALLOWED: Call a Poison Centre or doctor/physician if you feel unwell.
 P302+352: IF ON SKIN: Wash with plenty of water.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains:

Polymer
 Phenol, styrenated
 2-piperazin-1-ylethylamine
 3,6-diazaoctanethylenediamin
 3-aminomethyl-3,5,5-trimethylcyclohexylamine
 Trimehylhexane-1,6-diamine
 m-phenylenebis(methylamine)
 Phenol, methylstyrenated
 3-aminopropylidimethylamine
 4-4'-Methylenbis(cyclohexylamine)

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:

EINECS	CAS No:	Classification	Percent
PHENOL, STYRENATED			
262-975-0	61788-41-1	Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	10 - 25%
BENZYL ALCOHOL			
202-859-9	101-51-6	Acute Tox. 4: H302; Acute Tox. 4: H332	10 - 25%
POLYMER			
-	135108-88-2	Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Corr. 1H: H314	2,5 - 10%

2-PIPERAZIN-1-YLETHYLAMINE
 205-411-0 140-31-8 Acute Tox. 4: H302; Acute Tox. 3: 2,5 - 10%
 H311; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412

3,6-DIAZAOCTANETHYLENEDIAMIN
 112-24-3 612-105-00-4 Acute Tox. 4: H312; Skin Corr. 2,5 - 10%
 1B H314; Skin Sens. 1 H317; Aquatic Chronic 3: H412

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE
 220-666-8 2855-13-2 Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412

POLY(OXYPROPYLENE)DIAMINE
 - 9046-10-0 Skin Corr. 1H: H314 2,5 - 10%

TRIMETHYLHEXANE-1,6-DIAMINE
 247-134-8 25620-58-0 Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412

M-PHENYLENEBIS(METHYLAMINE)
 216-032-5 1477-55-0 Acute Tox. 4: H302; Acute Tox. 3: 2,5 - 10%
 H331; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412

POLYAMINOAMIDADDUKT
 - - Eye Dam. 1: H318 2,5 - 10%

PHENOL, METHYLSTYRENATED
 270-966-8 68512-30-1 Acute Tox. 4: H312; Skin Irrit. 2: 2,5 - 10%
 H315; Skin Sens. 1: H317;

SALICYLIC ACID
 200-712-3 69-72-7 Acute Tox. 4: H302; Eye Dam. 1: H318 1 - 2,5%

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL
 202-013-9 90-72-2 Acute Tox. 4: H302; Eye Irrit. 2: 1 - 2,5%
 H319; Skin Irrit. 2: H315

3-AMINOPROPYLDIMETHYLAMINE
 203-680-9 109-55-7 Flam. Liq. 3: H226; Acute Tox. 4: 1 - 2,5%
 H302; Acute Tox. 3: H311; Acute Tox. 3: H331; Skin Corr. 1B H314; Eye Dam. 1: H318; Skin Sens. 1: H317

4-4'-METHYLENBIS(CYCLOHEXYLAMINE)
 217-168-8 1761-71-3 Acute Tox. 4: H302; Skin Corr. 1A 1 - 2,5%
 H314; Skin Sens. 1: H317; STOT RE 2: H373; Aquatic Chronic 2: H411

AMINES, C12-C18-ALKYL
 262-977-1 61788-46-3 Acute Tox. 4: H302; Skin Corr. 1A: 0,5 - 1%
 H314; Aquatic Acute 1: H400

Full text of Hazard phrases: see section 16.

SECTION 4: FIRST AID MEASURES

General: In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Inhalation: Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Skin contact: Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed
 In all cases of doubt, or when symptoms persist, seek medical advice.

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SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media:	Alcohol resistant foam, carbon dioxide, powder, spray mist (water).
Unsuitable media:	Strong water jet.
Exposure hazards:	Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.
Advice for firefighters:	Provide a conveniently located respiratory protective device.
Other information:	Cool closed containers that are near the source of the fire. Co-ordinate fire-fighting measures to the fire surroundings. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Keep away from sources of ignition. Ventilated affected area. Do not breathe vapours. See protective measures under sections 7 and 8.
Environmental precautions:	Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.
Methods for cleaning up:	Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Use appropriate container to avoid environmental contamination.

SECTION 7: HANDLING AND STORAGE

Handling:	Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Only use the material in places where open light, fire and other flammable sources can be kept away. Always keep in containers that correspond to the material of the original container.
Storage:	Storage in accordance with the Ordinance on Industrial Safety and Health (BetRSIVO). Keep container tightly closed. Do not empty containers with pressure – no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Keep away from food, drink and animal feeding stuffs. Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5°C and 30°C. Protect from heat and direct sunlight.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

DNEL:	
salicylic acid	
DNEL long-term dermal (systemic),	Workers: 2 mg/kg bw/day
DNEL acute inhalative (systemic),	Workers: 16 mg/m ³
2,4,6-tris(dimethylaminomethyl)phenol	
DNEL long-term dermal (systemic),	Workers: 0,2 mg/kg bw/day
DNEL long-term inhalative (systemic),	Workers: 0,31 mg/m ³

benzyl alcohol	
DNEL acute dermal, short-term (systemic),	Workers: 47 mg/kg bw/day
DNEL long-term dermal (systemic),	Workers: 9,5 mg/kg bw/day
DNEL acute inhalative (systemic),	Workers: 450 mg/m ³
DNEL long-term inhalative (systemic),	Workers: 90 mg/m ³
3-aminopropyl-dimethylamine	
DNEL acute inhalative (local),	Workers: 9,8 mg/m ³
DNEL acute inhalative (systemic),	Workers: 9,8 mg/m ³
DNEL long-term inhalative (local),	Workers: 4,9 mg/m ³
DNEL long-term inhalative (systemic),	Workers: 4,9 mg/m ³
2-piperazin-1-ylethylamine	
DNEL acute dermal, short-term (local),	Workers: 47 mg/dm ²
DNEL acute dermal, short-term (systemic),	Workers: 20 mg/kg
DNEL long-term dermal (local),	Workers: 0,6 mg/dm ²
DNEL long-term dermal (systemic),	Workers: 3,33 mg/kg bw/day
DNEL acute inhalative (systemic),	Workers: 21,4 mg/m ³
DNEL long-term inhalative (systemic),	Workers: 3,6 mg/m ³
4,4'-Methylenbis(cyclohexylamine)	
DNEL long-term dermal (systemic),	Workers: 0,1 mg/kg bw/day
DNEL long-term inhalative (systemic),	Workers: 1 mg/m ³
Phenol, methylstyrenated	
DNEL short-term oral (acute),	Workers:
DNEL long-term inhalative (systemic),	Workers: 57 mg/m ³

PNEC:

salicylic acid	
PNEC aquatic, freshwater: 0,2 mg/L	
PNEC aquatic, marine water: 0,2 mg/L	
PNEC aquatic, intermittent release: 1 mg/L	
PNEC sediment, freshwater: 1,42 mg/kg	
PNEC sediment, marine water: 0,142 mg/kg	
PNEC Soil: 0,166 mg/kg	
PNEC sewage treatment plant (STP): 162 mg/L	
benzyl alcohol	
PNEC aquatic, freshwater: 1mg/L	
PNEC aquatic, marine water: 0,1 mg/L	
PNEC aquatic, intermittent release: 2,3 mg/L	
PNEC sediment, freshwater: 5,27 mg/kg	
PNEC Soil: 0,456 mg/kg	
PNEC sewage treatment plant (STP): 39 mg/L	
3-aminopropyl-dimethylamine	
PNEC aquatic, freshwater: 0,0535 mg/L	
PNEC aquatic, marine water: 0,0535 x10 ⁻¹ mg/L	
PNEC aquatic, intermittent release: 0,535 mg/L	
PNEC sediment, freshwater: 0,585 mg/kg	
PNEC sediment, marine water: 0,0585 mg/kg	
PNEC Soil: 0,0854 mg/kg	
PNEC sewage treatment plant (STP): 69,5 mg/L	
2-piperazin-1-ylethylamine	
PNEC aquatic, freshwater: 0,058 mg/L	
PNEC aquatic, marine water: 0,0058 mg/L	
PNEC aquatic, intermittent release: 0,58 mg/L	
PNEC sediment, freshwater: 215 mg/kg	
PNEC sediment, marine water: 21,5 mg/kg	
PNEC Soil: 42,9 mg/kg	
PNEC sewage treatment plant (STP): 250 mg/L	
m-phenylenebis(methylamine)	
PNEC aquatic, freshwater: 0,094 mg/L	
PNEC aquatic, marine water: 0,0094 mg/L	
PNEC aquatic, intermittent release: 0,152 mg/L	
PNEC sediment, freshwater: 0,43 mg/kg	
PNEC sediment, marine water: 0,043 mg/kg	
PNEC Soil: 0,045 mg/kg	
PNEC sewage treatment plant (STP): 10 mg/L	
4,4'-Methylenbis(cyclohexylamine)	
PNEC aquatic, freshwater: 0,008 mg/L	
PNEC aquatic, marine water: 0,0008 mg/L	
PNEC aquatic, intermittent release: 0,08 mg/L	
PNEC sediment, freshwater: 0,39 mg/kg	
PNEC sediment, marine water: 0,039 mg/kg	
PNEC Soil: 0,072 mg/kg	
PNEC sewage treatment plant (STP): 80 mg/L	
3-aminomethyl-3,5,5-trimethylcyclohexylamine	
PNEC aquatic, freshwater: 0,06 mg/L	
PNEC aquatic, marine water: 0,006 mg/L	
PNEC aquatic, intermittent release: 0,23 mg/L	
PNEC sediment, freshwater: 5,784 mg/kg	
PNEC sediment, marine water: 0,578 mg/kg	
PNEC Soil: 1,121 mg/kg	
PNEC sewage treatment plant (STP): 3,18 mg/L	

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION – Cont.**Trimethylhexane-1,6-diamine**

PNEC aquatic, freshwater: 0,0295 mg/L
 PNEC aquatic, marine water: 0,0295 x10⁻¹ mg/L
 PNEC aquatic, intermittent release: 0,295 mg/L
 PNEC sediment, freshwater: 0,18 mg/kg
 PNEC sediment, marine water: 0,018 mg/kg
 PNEC Soil: 0,019 mg/kg
 PNEC sewage treatment plant (STP): 72 mg/L

Phenol, methylstyrenated
 PNEC aquatic, freshwater: 14 x10⁻¹ mg/L
 PNEC aquatic, marine water: 1,4 x10⁻¹ mg/L
 PNEC aquatic, intermittent release: 140 x10⁻¹ mg/L
 PNEC sediment, freshwater: 52,9 mg/kg
 PNEC sediment, marine water: 5,3 mg/kg
 PNEC Soil: 10,5 mg/kg
 PNEC sewage treatment plant (STP): 2,4 mg/L

Exposure controls: Provide good ventilation. This can be achieved with local or room suction. When spraying, wear self-contained breathing apparatus.

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

Hand protection: For prolonged or repeated handling the following glove material must be used: nitrile rubber or butyl rubber. Thickness of the glove material >0,4mm; Break-through time (maximum wearing time) >480 min. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374. Barrier creams can help protecting exposed skin areas. In no circumstances should they be used after contact.

Eye protection: Wear closely fitting protective glasses in case of splashes.

Protective clothing: Wear suitable protective clothing.

Protective measures: After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental: Do not allow to enter into surface water or drains.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

State: Liquid
Colour: Amber
Odour: Characteristic
Flash point: >101°C
Vapour pressure: 0,29 mbar @ 20°C
Relative density: 1.00 (Water = 1 @ 20 °C)
Water Solubility: Insoluble

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable when applying the recommended regulations for storage and handling.

Hazardous reactions: Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

Conditions to avoid: Hazardous decomposition byproducts may form with exposure to high temperatures.

Haz. decomp. products: Hazardous decomposition byproducts may form with exposure to high temperatures, e.g. carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION**Acute toxicity:**

salicylic acid
 oral, LD50, Rat: 891 mg/kg
 dermal, LD50, Rat: >2000 mg/kg

2,4,6-tris(dimethylaminomethyl)phenol
 oral, LD50, Rat: 1670 mg/kg
 dermal, LD50, Rabbit: 1242 mg/kg

benzyl alcohol
 oral, LD50, Rat: 1230 mg/kg
 dermal, LD50, Rabbit: 2000 mg/kg
 inhalative (dust and mist), Rat: >4,178 mg/L (4 h)

3-aminopropylidimethylamine
 oral, LD50, Rat: 1600 mg/kg
 dermal, LD50, Rat: 1200 mg/kg
 dermal, LD50, Rabbit: 2139 mg/kg
 inhalative (vapours), LC50, Rat: >4,31 mg/L (4 h)

3,6-diazaoctanethylenediamin
 oral, LD50, Rat: 1716 mg/kg
 dermal, LD50, Rat: 1465 mg/kg
 dermal, LD50, Rabbit: 550 mg/kg
 oral, LD50, Mouse: 1600 mg/kg
 oral, LD50, Rabbit: 5500 mg/kg

2-piperazin-1-ylethylamine
 oral, LD50, Rat: 2140 mg/kg
 dermal, LD50, Rabbit: 866 mg/kg
 Methode: iterative value

m-phenylenebis(methylamine)
 oral, LD50, Rat: 930 mg/kg
 dermal, LD50, Rabbit: 2000 mg/kg
 inhalative (vapours), LC50, Rat: 2,4 mg/L (4 h)

4-4'-Methylenbis(cyclohexylamine)
 oral, LD50, Rat: 625 mg/kg
 dermal, LD50, Rabbit: 2110 mg/kg

3-aminomethyl-3,5,5-trimethylcyclohexylamine
 oral, LD50, Rat: 1030 mg/kg
 dermal, LD50, Rabbit: 1840 mg/kg

Trimethylhexane-1,6-diamine
 oral, LD50, Rat: 910 mg/kg
 If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).
 dermal, LD50, Rabbit: 1840 mg/kg

Phenol, styrenated
 oral, LD50, Rat: >2000 mg/kg
 dermal, LD50, Rat: >2000 mg/kg

Phenol, methylstyrenated
 oral, LD50, Rat: >2000 mg/kg
 dermal, LD50, Rat: >2000 mg/kg
 dermal, LD50, Rabbit: 2000 mg/kg
 oral, LD50, Rabbit: 3600 mg/kg

Poly(oxypropylene)diamine
 oral, LD50, Rat: 2855 mg/kg
 If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).
 dermal, LD50, Rabbit: 2980 mg/kg

Irritant and corrosive effects:

2-piperazin-1-ylethylamine
 Skin (4 h)

Poly(oxypropylene)diamine
 Skin (4 h) corrosivity

Polyaminoamidaddukt
 Eyes

Sensitisation

2-piperazin-1-ylethylamine
 Skin; evaluation may cause sensitization by skin contact.

Other observations:
 May cause an allergic skin reaction.
 Eyes: Corrosion.

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SECTION 12: ECOLOGICAL INFORMATION**Overall evaluation:**

There is no information available on the preparation itself.
Do not allow to enter into surface water or drains.

Toxicity:

salicylic acid

Daphnia toxicity, EC50: 870 mg/L (48 h)
literature value

benzyl alcohol

Fish toxicity, LC50: 460 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 400 mg/L (48 h)
Algae toxicity, ErC50, Algae: 640 mg/L (96 h)

3-aminopropylidimethylamine

Fish toxicity, LC50, Leuciscus idus (golden orfe): 122 mg/L (96 h)
Daphnia toxicity, EC50: 59,5 mg/L (48 h)
Algae toxicity, EC50, Algae: 56,2 mg/L (72 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 44,5 mg/L (24 h)
Bacteria toxicity, EC50, Pseudomonas putida: 95 mg/L (17 h)
Bacteria toxicity, EC50: >1000 mg/L

2-piperazin-1-ylethylamine

Fish toxicity, LC50, Leuciscus idus (golden orfe): 368 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 58 mg/L (24 h)
Algae toxicity, ErC50, Scenedesmus subspicatus: 494 mg/L (72 h)

m-phenylenebis(methylamine)

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): >100 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 16 mg/L (48 h)
Algae toxicity, ErC50, Scenedesmus subspicatus: 12 mg/L (72 h)
Fish toxicity: LC50, Brachydanio rerio (zebra fish): >100 mg/L (96 h)

4,4'-Methylenbis(cyclohexylamine)

Fish toxicity, LC50, Leuciscus idus (golden orfe): 46-100 mg/L (96 h)
Daphnia toxicity, EC50: Daphnia magna (Big water flea): 6,84 mg/L (48 h)
Algae toxicity, ErC50, 140 - 200 mg/L (72 h)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Fish toxicity, LC50, Brachydanio rerio (zebra-fish): 110 mg/L (96 h)
Daphnia toxicity, EC50: Daphnia magna (Big water flea): 23 mg/L (48 h)
Methode: OECD 202
Algae toxicity, ErC50, Scenedesmus subspicatus: 37 mg/L (72 h)
Methode: 88/302/EWG, annex V; C.8
Bacteria toxicity: EC10, Pseudomonas putida: 1120 mg/L (18 h)
Methode: literature value

Trimethylhexane-1,6-diamine

Algae toxicity, ErC50, Scenedesmus subspicatus: 29,5 mg/L (72 h)
Bacteria toxicity: EC10, Pseudomonas putida: 72 mg/L (16 h)
Daphnia toxicity, EC50: Daphnia magna (Big water flea): 31,5 mg/L (24 h)
Fish toxicity, LC50, Leuciscus idus (golden orfe): 174 mg/L (48 h)

Amines, C12-C18-alkyl

Fish toxicity, LC50, Leuciscus idus (golden orfe): 1 mg/L (96 h)
Daphnia toxicity, EC50: Daphnia magna (Big water flea): <1 mg/L (48 h)
Algae toxicity, ErC50, Selenastrum capricormutum: <1 mg/L (72 h)

Poly(oxypropylene)diamine

Fish toxicity, LC50, Leuciscus idus (golden orfe): 220 mg/L (96 h)
Daphnia toxicity, EC50: Daphnia magna (Big water flea): 15 mg/L (48 h)
Bacteria toxicity: EC10, Pseudomonas putida: 450 mg/L (30 min)

Long-term Ecotoxicity

2-piperazin-1-ylethylamine

Fish toxicity, LC50, Leuciscus idus (golden orfe): 368 mg/L (96 h)

m-phenylenebis(methylamine)

Algae toxicity, ErC50, Scenedesmus subspicatus: 12 mg/L (72 h)

Persistence and degradability

2-piperazin-1-ylethylamine

Not readily biodegradable (according to OECD criteria)

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal operations: Do not allow to enter into surface water or drains. Handle contaminated packages in the same way as the substance itself. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

Waste codes: 070208: other still bottoms and reaction residues.

Packaging: Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN2735
UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
Transport hazard class: 8
Packing group: III
Environmental hazard: No
Marine pollutant: No
Tunnel category: E
EmS-No. FA, S-B
Transport category: 3

SECTION 15: REGULATORY INFORMATION

EU legislation:

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guidelines).

VOC-value (in g/L) ISO 11890-2: 146,111

SECTION 16: OTHER INFORMATION

Phrases used

in s.2 and s.3: H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

All the foregoing information should be regarded as being applicable to the uncured mixed product as well as to the individual components.

This material may form part of a multi component pack, and is supplied in the correct proportions for that pack. Please check all of the product labels to ensure that the correct components and pack sizes are being used. Select and use appropriate pack sizes to minimise waste and operator exposure, do not split packs. Use in batch order.

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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