

MATERIAL SAFETY DATA SHEET

135 0100/0200A

Crackfiller EP100 – Part A



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

Product Name: **CRACKFILLER EP100 – 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:
 Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317.

Most important adverse effects:

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. 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:

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

P273: Avoid release to the environment.

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

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P391: Collect spillage.

P501: Dispose of to licensed, permitted incinerator, or other thermal destruction device.

PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:

EINECS	CAS No:	Classification	Percent
2,2'-(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE	216-823-5	1675-54-3	50 - 70%
		Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	
OXIRANE, MONO[(C12-14ALKYLOXY)METHYL] DERIVATIVES	271-846-8	68609-97-2	10 - 30%
		Skin Irrit. 2: H315; Skin Sens. 1: H317	
BISPHENOL F EPICHLOROXYDRIN RESIN WITH NUMBER AVERAGE	-	28064-14-4	10 - 30%
		Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411; Eye Irrit. 2: H319	

SECTION 4: FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.
 Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Immediate / special treatment: Eye bathing equipment should be available on the premises.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Advice for firefighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods for cleaning up: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

Storage: Store in a cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Specific end use(s): No data available.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Workplace exposure limits: No data available.

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves. Breakthrough time of the glove material > 8 hours. Material of gloves for long term application (BTT>480min) Nitrile gloves. Butyl gloves. Neoprene gloves. PVC gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US).

Eye protection: Safety glasses. Ensure eye bath is to hand. Goggles giving complete protection to eyes and eyewash bottle with clean water.

Skin protection: Protective clothing.

Environmental: Ensure emissions from ventilation or equipment comply with environmental protection legislation.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

State:	Liquid
Colour:	Yellow
Odour:	Barely perceptible odour
Viscosity:	Viscous
Boiling point:	>100°C
Flash point:	>100°C
Relative density:	1.12 g/cm ³
pH:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal conditions.

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION**Toxicity values:**

Route	Species	Test	Value	Units
SKIN	–	LD50	>2000	mg/kg
ORL	–	LD50	>2000	mg/kg

Hazardous ingredients:

BISPHENOL A-(EPICHLORHYDRIN) (REACTION PRODUCT)			
ORL	MUS	LD50	15600 mg/kg
ORL	RAT	LD50	11400 mg/kg
SKN	RBT	LD50	>20 ml/kg

OXIRANE, MONO[(C12-14ALKYLOXY)METHYL] DERIVATIVES			
ORL	RAT	LD50	17100 mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure:Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity values:	No data available.
Persistence and degradability:	Not biodegradable.
Bioaccumulative potential:	Bioaccumulation potential.
Mobility:	Readily absorbed into soil.
PBT identification:	This product is not identified as a PBT/vPvB substance.
Other adverse effects:	Toxic to aquatic organisms. Toxic to soil organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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:	Yes
Tunnel category:	E
Transport category:	3

SECTION 15: REGULATORY INFORMATION

Specific regulations: Not applicable.

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SECTION 16: OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

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.

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.

Date of Issue: April 2018

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MATERIAL SAFETY DATA SHEET

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Crackfiller EP100 – Part B**SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY**

Product Name: **CRACKFILLER EP100 – PART B**
 Company Name: Polycote UK
 Centre Point • Wolsley Road
 Woburn Road Industrial Estate
 Kempston • Beds MK42 7EF
 Telephone Number: 01234 846400

SECTION 2: HAZARDS IDENTIFICATION**Classification under CLP:**

Repr. 2: H361f; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Sens. 1A: H317; STOT SE 3: H335; Repr. 2: H361d; Aquatic Chronic 1: H410; -: EUH071.

Most important adverse effects:

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects. Corrosive to the respiratory tract.

Hazard pictograms:Signal word: **Danger**

Hazard statements: H302+332: Harmful if swallowed or if inhaled.
 H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.
 H361f: Suspected of damaging fertility.
 H400: Very toxic to aquatic life.
 H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P201: Obtain special instructions before use.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P281: Use personal protective equipment as required.
 P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTRE/doctor.
 PBT: This product is not identified as a PBT/vPvB substance.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**Chemical Name:**

EINECS	CAS No:	Classification	Percent
4-TERT-BUTYLPHENOL 202-679-0	98-54-4	Repr. 2: H361f; Skin Irrit. 2: H315; Eye Dam. 1: H318	30 - 50%
TRIMETHYLEXANE-1,6-DIAMINE 247-134-8	25620-58-0	Aquatic Acute 1: H400; Skin Corr. 1B: H314	10 - 30%
M-PHENYLENEBIS(METHYLAMINE) 216-032-5	1477-55-0		10 - 30%
4-NONYLPHENOL, BRANCHED 284-325-5	84852-15-3	Repr. 2: H361fd; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	1 - 10%

SECTION 4: FIRST AID MEASURES

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Get medical attention immediately. Call a poison centre or Doctor. If unconscious, check for breathing and apply artificial respiration if necessary.

Most important symptoms and effects, both acute and delayed

Skin contact: If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

Eye contact: Corneal edema can cause the perception of "blue haze" or "fog" around lights, although this is a temporary effect and has no known residual effect. Product vapor can cause glaucoma (corneal edema) when absorbed into the tissue of the eye from the atmosphere. Severe eye irritation.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Harmful if inhaled and may cause delayed lung injury. May cause central nervous system effects, such as headache, nausea, dizziness, confusion or breathing difficulties. Severe cases of overexposure can result in respiratory failure. May cause nose, throat and lung irritation. Inhalation of vapours and/or aerosols in high concentration may cause irritation of respiratory system.

Delayed / immediate effects:
 Repeated and/or prolonged exposure to low concentrations of vapour and/or aerosols may cause sore throat.

Immediate / special treatment:
 Not applicable.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Alcohol resistant foam. Dry chemical powder. Dry sand or limestone.

Exposure hazards: Personnel in vicinity and downwind should be evacuated. In combustion emits toxic fumes. May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NOx) is to be expected.

Advice for firefighters: Avoid contact with skin. Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions:	Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Methods for cleaning up:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

SECTION 7: HANDLING AND STORAGE

Handling:	Avoid the formation or spread of mists in the air. Avoid direct contact with the substance. Suspected cancer causing nitrosamines could be formed. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations.
Storage:	Store in a cool, well ventilated area. Keep container tightly closed. Do not store near acids.
Packaging:	Do not store in reactive metal containers.
Specific end use(s):	No data available.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Workplace exposure limits:	No data available.
Engineering measures:	Provide readily accessible eye wash stations and safety showers. Provide natural or explosive-proof ventilation adequate to ensure concentrations are kept below exposure limits.
Respiratory protection:	In poorly ventilated areas use an approved organic vapour cartridge mask.
Hand protection:	Protective gloves. Impermeable gloves. Neoprene gloves. PVC gloves. Butyl gloves. Nitrile gloves.
Eye protection:	Chemical safety glasses. Ensure eye bath is to hand.
Skin protection:	Long sleeve shirts and trousers without cuffs.
Environmental:	Prevent from entering in public sewers or the immediate environment.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

State:	Liquid
Colour:	Amber
Odour:	Ammoniacal
Viscosity:	100 mPa.s @ 25°C
Boiling point:	>200°C
Flash point:	>100°C
Relative density:	0.99 g/cm ³
pH:	Alkaline

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Stable under recommended transport or storage conditions.
Chemical stability:	Stable under normal conditions.
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
Materials to avoid:	Reactive metals (e.g. sodium, calcium, zinc etc) Oxidizing agents. Materials reactive with hydroxyl compounds. Sodium Hypochlorite. Organic Acids (i.e. acetic acid, citric acid etc). Strong mineral acids Product slowly corrodes copper, aluminium, zinc and galvanized surfaces. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents.
Haz. decomp. products:	In case of fire hazardous decomposition products may be produced such as: Carbon Monoxide - Carbon Dioxide(CO ²) - Nitric Acid - Ammonia - Nitrogen Oxides(NO _x) - Nitrogen Oxide can react with water vapors to form corrosive nitric acid. - Aldehydes. Nitrosamine.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity values:			
Route	Species	Test	Value Units
ORL	RAT	LD50	2,951 mg/kg
Hazardous ingredients:			
4-NONYLPHENOL, BRANCHED			
ORL	RAT	LD50	1300 mg/kg
SKN	RBT	LDLO	3160 mg/kg
Relevant hazards for substance:			
Hazard	Route	Basis	
Acute toxicity (ac. tox. 4)	–	Hazardous: calculated	
Skin corrosion/irritation	DRM	Hazardous: calculated	
Serious eye damage/irritation	OPT	Hazardous: calculated	
Reproductive toxicity	–	Hazardous: calculated	
Symptoms / routes of exposure:			
Skin contact:	If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.		
Eye contact:	Corneal edema can cause the perception of "blue haze" or "fog" around lights, although this is a temporary effect and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere. Severe eye irritation.		
Ingestion:	There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.		
Inhalation:	Harmful if inhaled and may cause delayed lung injury. May cause central nervous system effects, such as headache, nausea, dizziness, confusion or breathing difficulties. Severe cases of overexposure can result in respiratory failure. May cause nose, throat and lung irritation. Inhalation of vapours and/or aerosols in high concentration may cause irritation of respiratory system.		
Delayed / immediate effects:			
Repeated and/or prolonged exposure to low concentrations of vapour and/or aerosols may cause sore throat.			

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SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity values:**

Species	Test	Value	Units
ALGAE	72H IC50	700	mg/l
FISH	96H LC50	10	mg/l

Persistence and degradability:	Biodegradable.
Bioaccumulative potential:	No bioaccumulation potential.
Mobility:	Readily absorbed into soil.
PBT identification:	This product is not identified as a PBT/vPvB substance.
Other adverse effects:	Negligible ecotoxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal company.
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

UN Number:	UN2735
UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Benzene-1,3-dimethaneamine (MXDA), Trimethylhexane-1,6-diamine)
Transport hazard class:	8
Packing group:	II
Environmental hazard:	Yes
Marine pollutant:	Yes
Tunnel category:	E
Transport category:	2

SECTION 15: REGULATORY INFORMATION

Specific regulations: Not applicable.

SECTION 16: OTHER INFORMATION

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Phrases used

in s.2 and s.3: EUH071: Corrosive to the respiratory tract.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H361d: Suspected of damaging the unborn child.
H361f: Suspected of damaging fertility.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
H410: Very toxic 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.

Date of Issue: April 2018

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