

MATERIAL SAFETY DATA SHEET

External Crackfiller – Part A



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

Product Name: **EXTERNAL CRACKFILLER – 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:

Physical hazards: Flam. Liq. 3 - H226
 Health hazards: Skin Irrit. 2 - H315; Skin Sens. 1 - H317
 Environmental hazards: Not classified
 Physicochemical: The product is flammable. Heating may generate flammable vapours.

Hazard pictograms:



Signal word: Warning
 Hazard statements: H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with national regulations.
 P271 Use only outdoors or in a well-ventilated area.
 Contains: METHYL METHACRYLATE, MIXTURE OF ALKYL ESTERS OF 2-ALKYL 2-PROPENOIC ACID, BUTYL METHACRYLATE -norm.
 WHMIS Label: Flammable Liquid. Materials causing other toxic effects.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS No.	Classification	Percent
METHYL METHACRYLATE	201-297-1	80-62-6	Flam. Liq. 2 - H225; Skin Irrit. 2 - H315; Skin Sens. 1 - H317; STOT SE 3 - H335	5 - 10%
MIXTURE OF ALKYL ESTERS OF 2-ALKYL 2-PROPENOIC ACID	203-080-7	103-11-7	Skin Irrit. 2 - H315; Skin Sens. 1 - H317; STOT SE 3 - H335	1 - 5%
BUTYL METHACRYLATE -norm	202-615-1	97-88-1	Flam. Liq. 3 - H226; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; STOT SE 3 - H335	1 - 5%

The Full Text for all Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

Inhalation: Remove affected person from source of contamination. Keep the affected person warm and at rest. Get prompt medical attention.
 Ingestion: Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Rinse mouth thoroughly with water. Immediately give a couple of glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.
 Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.
 Eye contact: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
Most important symptoms and effects, both acute and delayed
 Inhalation: Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
 Ingestion: May cause nausea, headache, dizziness and intoxication.
 Skin contact: Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. The product contains a sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.
 Eye contact: Irritation of eyes and mucous membranes.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.
 Unsuitable media: Do not use water jet as an extinguisher, as this will spread the fire.
 Specific hazards: The product is flammable. Heating may generate flammable vapours. Closed containers can burst violently when heated, due to excess pressure build-up.
 Haz. combustion: Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).
 Special fire-fighting procedures: Cool containers exposed to flames with water until well after the fire is out.
 Protective measures in fire: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.
 Environmental precautions: Avoid discharge to the aquatic environment.
 Spill clean up methods: Stop leak if possible without risk. DO NOT touch spilled material! Absorb spillage with noncombustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. If involved in a fire, shut off flow if it can be done without risk.

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SECTION 7: HANDLING AND STORAGE

Usage precautions:	During curing, the product will release small quantities of irritating vapours. Keep away from heat, sparks and open flame. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation. Do not use in confined spaces without adequate ventilation and/or respirator. Persons susceptible to allergic reactions should not handle this product.
Storage precautions:	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from light. Take precautionary measures against static discharges.
Storage class:	Flammable liquid storage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limit Values				
Name	Std	TWA – 8 hrs	STEL – 15 min	Notes
METHYL METHACRYLATE				
	WEL	50 ppm	208 mg/m ³	100 ppm 416 mg/m ³
KERAWAX 2203				
	WEL		2 mg/m ³	6 mg/m ³

WEL = Workplace Exposure Limit

METHYL METHACRYLATE (CAS: 80-62-6)

DNEL Professional - Inhalation; Long term : 210 mg/m³
 Professional - Dermal; Long term : 13.7 mg/kg/day
 Consumer - Inhalation; Long term : 74.3 mg/m³
 Consumer - Dermal; Long term : 8.2 mg/kg/day

PNEC - Fresh water; Long term 0.94 mg/l
 - Marine water; 0.094 mg/l
 - Sediment; 5.74 mg/kg
 - Soil; 1.47 mg/kg

BUTYL METHACRYLATE -norm (CAS: 97-88-1)

DNEL Industry - Inhalation; Long term : 209.4
 Industry - Dermal; Long term : 5 mg/kg/day

PNEC Industry - Fresh water; Long term 0.17 mg/l

Protective equipment:



Eyes/face protection: The following protection should be worn: Chemical splash goggles.

Hand protection: Wear protective gloves made of the following material: Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Hygiene measures: Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Viscous liquid. Opaque liquid. Suspension.
Colour:	Grey or Black
Odour:	Characteristic
Solubility:	Insoluble in water. Insoluble in organic solvents.
Boiling point:	~100°C @ 760 mm Hg
Flash point:	~25 - 27°C CC (Closed cup)
Auto Ignition temp:	~430°C
Flammability limit:	Lower (%) 2.0% Upper (%) 13.0%

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Polymerisable material. Reactions with the following materials may generate heat: Acids. Alkalis. Amines. Organic peroxides/hydroperoxides. Strong oxidising agents. Strong reducing agents.
Stability:	Stable at normal ambient temperatures and when used as recommended.
Conditions to avoid:	Avoid heat, flames and other sources of ignition. Protect from light.
Haz. polymerisation:	Polymerises easily with evolution of heat.
Materials to avoid:	Avoid contact with oxidizers, acids, aluminium, zinc, amines, peroxides, aluminium- and iron-chlorides.
Haz. decomp. products:	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological effects:	
ATE oral (mg/kg)	9,451.06
ATE dermal (mg/kg)	130,434.78
ATE inhalation (vapours mg/l)	608.7
Inhalation:	Gas or vapour in high concentrations may irritate the respiratory system.
Ingestion:	May cause discomfort if swallowed. May cause stomach pain or vomiting. Headache. Diarrhoea.
Skin contact:	Liquid may irritate skin. May cause sensitisation by skin contact.
Eye contact:	May cause eye irritation. Vapour or spray in the eyes may cause irritation and smarting.

Toxicological information on ingredients.

Name:	METHYL METHACRYLATE
Other health effects:	IARC Class 3. NTP Not Listed.
Acute toxicity oral (LD ₅₀ mg/kg)	8,400.0
Species:	Rat
Acute toxicity dermal (LD ₅₀ mg/kg)	5,000.0
Species:	Rabbit
Acute toxicity inhalation (LC ₅₀ vapours mg/l)	7,093.0
Species:	Rat
Skin corrosion/irritation	
Animal data	Dose: 0.5 ml, 4 hr, Rabbit Irritating to skin.
Extreme pH	Not applicable. Moderate pH (> 2 and < 11.5).
Serious eye damage/irritation:	Slightly irritating.
Skin sensitisation:	- Mouse: Sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro:	Chromosome aberration: Inconclusive.
Genotoxicity - in vivo:	Chromosome aberration: Inconclusive.
Carcinogenicity:	NOAEL 4.1 mg/L, Inhalation, Rat NOAEL 90.3 mg/kg/day, Oral, Rat. There is no evidence that the product can cause cancer.
Reproductive toxicity - fertility:	Two-generation study - NOAEL 400 mg/kg, Oral, Rat.
Reproductive toxicity - development:	Developmental toxicity: - 450 mg/kg, Oral, Rabbit
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	NOAEC 124.1 mg/kg, Oral, Rat None known.

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Polycote External Crackfiller – Part A Cont.**SECTION 11: TOXICOLOGICAL INFORMATION – Cont.**

Inhalation: Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion: Irritating. Symptoms following overexposure may include the following: Dizziness. Nausea, vomiting.

Skin contact: May be absorbed through the skin. Prolonged contact may cause redness, irritation and dry skin. May cause sensitisation by skin contact.

Eye contact: Vapour or spray in the eyes may cause irritation and smarting.

Route of entry: Skin absorption Inhalation.

Name: MIXTURE OF ALKYL ESTERS OF 2-ALKYL 2-PROPENOIC ACID

Other health effects: IARC Class 3. NTP Not Listed.

Name: BUTYL METHACRYLATE -norm

Other health effects: NTP Not Listed. IARC Not Listed.

Skin corrosion/irritation

Animal data: Dose: 0.5 ml, 4 day, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: Very slight oedema - barely perceptible (1). Slightly irritating.

Serious eye damage/irritation: Slightly irritating.

Skin sensitisation: Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro: Reverse mutation test using bacteria (OECD TG 471): Negative. Gene mutation: Negative.

Genotoxicity - in vivo: Chromosome aberration: Negative.

Carcinogenicity: NOAEL 4.1 mg/L, Inhalation, Rat NOAEL 90.3 mg/kg, Oral, Rat There is no evidence that the product can cause cancer.

Reproductive toxicity - fertility: Two-generation study - NOAEL 400 mg/kg, Oral, Rat Negative.

Reproductive toxicity - development: Developmental toxicity: - NOAEC: 300 ppm, Inhalation, Rat.

Specific target organ toxicity - single exposure

STOT - single exposure: No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure: NOAEC 310 ppmV/6hr/day, Inhalation.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

Ecological information on ingredients:

Name: METHYL METHACRYLATE

Toxicity: Not considered toxic to fish.

Acute toxicity - fish: LC50, 96 hours, 96 hours: > 79 mg/l, Onchorhynchus mykiss (Rainbow trout)
LC50, 96 hours, 96 hours: 159 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates:
EC₅₀, 48 hours, 48 hours: mg/l, Daphnia magna
NOEC, 48 hours, 48 hours: 48 mg/l, Daphnia magna
EC₅₀, 48 hours: 69 mg/l, 48 hr, Daphnia Magna mg/l, Daphnia magna

Acute toxicity - aquatic plants:
EC₅₀, 72 hours, 72 hours: > 110 mg/l, Selenastrum capricornutum
NOEC, 72 hours, 72 hours: 49 mg/l, Selenastrum capricornutum
IC₅₀, 72 hours: >110 mg/L, 72 hr, Selenastrum capricornutum mg/l, Algae

Chronic toxicity - aquatic invertebrates:
EC₅₀, 21 days, 21 days: 49 mg/l, Daphnia magna

Name: BUTYL METHACRYLATE -norm

Toxicity: Not considered toxic to fish.

Acute toxicity - fish: LC50, 96 hours, 96 hours: 11 mg/l, Pimephales promelas (Fat-head Minnow)
LC50, 96 hours, 96 hours: 5.57 mg/l, Oryzias latipes (Red killifish)
LC₅₀, 96 hours: 11 mg/L Pimephales promelas (Fathead Minnow) mg/l, Fish

Acute toxicity - aquatic invertebrates:
EC₅₀, 48 hours, 48 hours: 32.8 mg/l, Daphnia magna
EC₅₀, 48 hours: 32.8 mg/L Daphnia Magna mg/l, Daphnia magna

Acute toxicity - aquatic plants:
EC₅₀, 72 hours, 72 hours: 57 mg/l

Acute toxicity - micro-organisms:
NOEC, >: 100 mg/l, Activated sludge

Chronic toxicity - aquatic invertebrates:
NOEC, 21 days, 21 days: 2.6 mg/l, Daphnia magna

Persistence and degradability:
The product is not readily biodegradable.

Ecological information on ingredients.

Name: METHYL METHACRYLATE

Phototransformation: Air. - Half-life : ~ 7.4 hours

Soil - Half-life : 8 hours

Stability (hydrolysis): pH 3 - Degradation (%) : 0 % @ 25°C @ °C
pH7 - Half-life : 53 months @ 25°C @ °C
pH 11 - Half-life : 2.4 hours @25°C @ °C

Biodegradation: Degradation (%)
- 94: 14 days
The substance is readily biodegradable.

Name: BUTYL METHACRYLATE -norm

Phototransformation: Air. - Half-life : ~ 6 hours

Stability (hydrolysis): pH4 - Degradation (%) : 0 % @50 °C @ °C
pH7 - Degradation (%) : 0 % @ 50 °C @ °C
pH9 - Half-life : 34 hours @ 25 °C @ °C

Biodegradation: Degradation (%)
- 88: 28 days
Degradation refers to mineralisation.
The substance is readily biodegradable.

Bioaccumulative potential:
The product does not contain any substances expected to be bioaccumulating.

Ecological information on ingredients.

Name: METHYL METHACRYLATE

Bioaccumulative potential: The product is not bioaccumulating. BCF: 2.97

Name: BUTYL METHACRYLATE -norm

Bioaccumulative potential: The product is not bioaccumulating.

Partition coefficient: log Pow: 2.99

Mobility in soil

Mobility: The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is insoluble in water and will sediment in water systems. The product hardens to a solid, immobile substance.

Ecological information on ingredients.

Name: METHYL METHACRYLATE

Mobility: The product is immiscible with water and will spread on the water surface. Highly volatile.

Adsorption/desorption coefficient:
Soil - Koc: @ 8.7-72°C

Henry's law constant 34.15 Pa m³/mol @ °C

Surface tension: 28.9 mN/m @ °C

Name: BUTYL METHACRYLATE -norm

Mobility: Highly volatile. The product has poor water-solubility.

Adsorption/desorption coefficient:
Soil - Koc: 1480 @ °C

Henry's law constant 0.000109 @ °C

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: Cured product can be peeled from the inside of the bucket, if required, to leave a clean, reusable container. Empty containers should be disposed of in accordance with Local Authority guidelines. Cured product can be disposed of as industrial waste. Unused resin and powder catalyst must be treated as hazardous waste.

SECTION 14: TRANSPORT INFORMATION

Proper shipping name: RESIN SOLUTION

UN No. Road: 1866

ADR Class No: 3 **ADR Pack Group:** III

ADR Class: Class 3: Flammable liquids

Tunnel Restriction Code: (D/E)

Hazard No. (ADR) 30 **ADR Label No:** 3

Hazchem Code: 3YE

RID Class No: 3 **RID Pack Group:** III

UN No. Sea: 1866

IMDG Class: 3 **IMDG Pack Group:** III

EMS: F-E, S-E **UN No. Air:** 1866

Air Class: 3 **Air Pack Gr:** III

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Polycote External Crackfiller – Part A Cont.**SECTION 15: REGULATORY INFORMATION**

National Regulations:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Dangerous Substances Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

Health and environmental listings:

Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer (as amended). Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants (as amended). Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended). None of the ingredients are listed.

Chemical safety assessment:

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Hazard statements

in full: H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

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: June 2017

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MATERIAL SAFETY DATA SHEET

External Crackfiller – Part B



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

Product Name: **EXTERNAL CRACKFILLER – 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:

Physical hazards: Org. Perox. D - H242
 Health hazards: Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Repr. 2 - H361fd
 Environmental hazards: Aquatic Acute 1 - H400; Aquatic Chronic 3 - H412
 Hazard pictograms:



Signal word: Danger
 Hazard statements: H242 Heating may cause a fire.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H400 Very toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 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.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P313 Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P410 Protect from sunlight.
 P411+P235 Store at temperatures not exceeding °C/°F. Keep cool.
 P420 Store away from other materials.
 P501a Dispose of contents/container in accordance with local regulations.
 Contains: DIBENZOYL PEROXIDE, DICYCLOHEXYL PHTHALATE
 WHMIS Label: Oxidizing Material. Materials Causing Other Toxic Effects. Dangerously Reactive Material.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS No.	Classification	Percent
DIBENZOYL PEROXIDE	202-327-6	94-36-0	Org. Perox. B - H241; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Aquatic Acute 1 - H400	30 - 60%
DICYCLOHEXYL PHTHALATE	201-545-9	84-61-7	Skin Sens. 1 - H317; Repr. 2 - H361fd; Aquatic Chronic 3 - H412	30 - 60%

The Full Text for all Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

Inhalation: Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.
 Ingestion: Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately!
 Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention promptly if symptoms occur after washing.
 Eye contact: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
Most important symptoms and effects, both acute and delayed
 General: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
 Doctor: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Extinguish with the following media: Water spray. Foam. Dry chemicals, sand, dolomite etc.
 Unsuitable media: Halon.
 Specific hazards: Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Benzoic acid. May re-ignite after fire is extinguished. Risk of explosion if heated. Dust may form explosive mixture with air.
 Hazardous products: Carbon dioxide (CO₂). Carbon monoxide (CO). Benzoic Acid & Benzene.
 Special fire-fighting procedures: Risk of re-ignition after fire has been extinguished. Risk of explosion.
 Protective measures in fire: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet.
 Environmental precautions: Do not discharge into drains, water courses or onto the ground.
 Spill clean up methods: Dampen spillage with water. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Use non sparking handtools and explosion-proof electric equipment. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Avoid generation and spreading of dust. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

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SECTION 7: HANDLING AND STORAGE

Usage precautions:	Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Use explosion proof electric equipment. Do not handle broken packages without protective equipment. Persons susceptible to allergic reactions should not handle this product.
Storage precautions:	Store in closed original container at temperatures between 5°C and 25°C.
Storage class:	Oxidiser storage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limit Values				
Name	Std	TWA – 8 hrs	STEL – 15 min	Notes
DIBENZOYL PEROXIDE				
	WEL	5 mg/m ³	-	
DICYCLOHEXYL PHTHALATE				
	WEL	5 mg/m ³	-	

WEL = Workplace Exposure Limit

DNEL	Professional - Inhalation; Long term systemic effects: 11.75 mg/m ³ Professional - Dermal; Long term systemic effects: 6.6 mg/kg/day
PNEC	- Fresh water; 0.000602 mg/l - Marine water; 0.000602 mg/l - STP; 0.35 mg/l - Sediment (Freshwater); 0.338 mg/kg - Soil; 0.0758 mg/kg

Protective equipment:



Engineering controls:	Use explosion-proof general and local exhaust ventilation.
Eye/face protection:	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.
Hand protection:	Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other protection:	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures:	Do not smoke in work area. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection:	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Particulate filter, type P2.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Dusty powder
Colour:	White
Odour:	Slight
Solubility:	Insoluble in water.
Melting point:	>40°C
Flash point:	n/a
Bulk density:	620-650 kg/m ³

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	The following materials may react with the product: Strong reducing agents. Strong alkalis. Acids. The following materials may react strongly with the product: Strong acids. Strong alkalis. Organic compounds. Some metals.
Stability:	SADT – (self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by decomposition at and above the following temperature: 55°C. Will decompose at temperatures exceeding 55°C.
Conditions to avoid:	Avoid heat, flames and other sources of ignition.
Haz. polymerisation:	Will not polymerise.
Materials to avoid:	Chemically active metals. Metal oxides. Copper. Acids. Alkalis. Reducing Agents.
Haz. decomp products:	Benzoic Acid & Benzene.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological effects:	No data recorded.
Skin corrosion/irritation	
Animal data:	Slightly irritating.
Skin sensitisation:	Sensitising.
Inhalation:	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion:	May cause chemical burns in mouth, oesophagus and stomach.
Skin contact:	May cause sensitisation by skin contact.
Eye contact:	Irritating to eyes.
Toxicological information on ingredients	
DIBENZOYL PEROXIDE	
Other health effects:	IARC Class 3. NTP Not Listed.
Acute toxicity oral (LD ₅₀ mg/kg)	5,000.0
Species:	Rat
Acute toxicity inhalation (LC ₅₀ dust/mist mg/l)	24.3
Species:	Rat
ATE inhalation (dusts/mists mg/l)	24.3
Skin corrosion/irritation	
Animal data	On the skin: rabbit - weak irritant
Serious eye damage/irritatio:	Irritating to eyes.
Skin sensitisation:	Epidemiological studies have shown evidence of skin sensitisation.

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	Toxic to aquatic organisms.
Acute toxicity - fish:	LC ₅₀ , 96 hours: 0.06 mg/l, Fish
Acute toxicity - aquatic invertebrates:	EC ₅₀ , 48 hours: 0.11 mg/l, Daphnia magna
Persistence and degradability:	The product is biodegradable.
Bioaccumulative potential:	BCF: 66.6
Mobility:	The product is partly miscible with water and may spread in the aquatic environment.
Results of PBT and vPvB assessment:	This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 13: DISPOSAL CONSIDERATIONS

General:	Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods:	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: TRANSPORT INFORMATION

Proper shipping name:	ORGANIC PEROXIDE TYPE D, SOLID (CONTAINS DIBENZOYL PEROXIDE)
UN No. Road:	3106
ADR Class No:	5.2
ADR Class:	Class 5.2: Organic peroxides.
Tunnel Restriction Code:	(D)
ADR Label No:	5.2
Hazchem Code:	1WE
UN No. Sea:	3106
IMDG Class:	5.2
EMS:	F-J, S-R
UN No. Air:	3106
Air Class:	5.2

SECTION 15: REGULATORY INFORMATION

National regulations:	Control of Substances Hazardous to Health Regulations 2002 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation:	Dangerous Substances Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance:	CHIP for everyone HSG228. Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.

SECTION 16: OTHER INFORMATION

Hazard statements in full:	H241 Heating may cause a fire or explosion. H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
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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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