

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


1.1 Product Identifier
Product Name: Jointex XFH (Resin) Part A

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified Use(s): Resin component of the two-pack flexible joint filler.
Uses Advised Against: None Known

1.3 Details of the supplier of the safety data sheet
Company Name: Polycote UK LLP
 Centre Point
 Wolseley Road
 Woburn Road Industrial Estate
 Kempston
 Beds
 MK42 7EF
Telephone Number: 01234 846400
Emergency Contact Number: 111 (NHS England)
Email address: uksales@polycote.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:
 Flam. Liq. 2: Highly flammable liquid and vapour.
 Skin Irrit. 2: Causes skin irritation.

2.2 Label elements
According to Regulation (EC) No. 1272/2008 (CLP):
Hazard pictograms: 

Signal word: Danger

Hazard statements:
 H225: Highly flammable liquid and vapour.
 H315: Causes skin irritation.
 H370: Causes damage to organs.
 H335: May cause respiratory irritation.




Precautionary statements: None

2.3 Other hazards: None known.

2.4 Additional Information: For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Hazardous Ingredient(s)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
methyl methacrylate methyl 2-methylprop-2-enoate methyl 2-methylpropenoate	80-62-6	0.00	Flam. Liq. 2 H225 Skin Irrit. 2 H315 Skin Sens. 1 H317 STOT SE 3 H335	
2-ethylhexyl acrylate	103-11-7	0.00	Flam. Liq. 4 H227 Skin Irrit. 2 H315 Skin Sens. 1 H317 STOT SE 3 H335	
1,1'-(p-tolylimino)dipropen-2-ol	38668-48-3	0.00	Acute Tox. 2 H300 Eye Irrit. 2B H320	

3.2 Mixture:
 Non-applicable

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures:

By inhalation: Specific treatment (see Medical Advice on this label). Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

By skin contact: Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label). Take off immediately all contaminated clothing. Rinse skin with water.

By eye contact: Specific treatment (see Medical Advice on this label).

By ingestion/aspiration: Specific treatment (see Medical Advice on this label).

4.2 Most important symptoms and effects, both acute and delayed
 Causes burns.

4.3 Indication of any immediate medical attention and special treatment needed:
 Specific treatment (see Medical Advice on this label). Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:	
Suitable extinguishing media:	Use to extinguish
Unsuitable extinguishing media	Water jet spray
5.2 Special hazards arising from the substance or mixture:	Highly flammable liquid and vapour. May decompose in a fire, giving off toxic and irritant vapours.
5.3 Advice for firefighters:	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:	Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.
6.2 Environmental precautions:	This material and its container must be disposed of in a safe way.
6.3 Methods and material for containment and cleaning up:	Adsorb spillages onto sand, earth or any suitable adsorbent material. Use vacuum equipment for collecting spilt materials, where practicable. Containers must not be punctured or destroyed by burning, even when empty.
6.4 Reference to other sections:	See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
7.2 Conditions for safe storage, including any incompatibilities:	Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Storage temperature:	Ambient.
Storage life:	Stable under normal conditions.
Incompatible materials:	None known.
7.3 Specific end use(s)	Resin component of the two pack flexible joint filler.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:
Substances whose occupational exposure limits have to be monitored in the workplace:
EH40/2005 Workplace exposure limits, fourth edition, published 2020


Occupational Exposure Limits						
Substance	CAS No.	LTCL (8 hr TWA ppm)	LTCL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Methyl methacrylate	80-62-6	50	208	100	416	
Region	Source					
Europe	EU Occupational Exposure Limits					
United Kingdom	Workplace Exposure Limits (WEL)					
Remark	Notes					

8.2 Exposure controls:




8.2.1. Appropriate engineering controls

Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Pictogram	Remarks
 Eye Protection	Wear eye protection with side protection (EN166).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Pictogram	Remarks
 Skin Protection	Wear protective clothing and gloves: Impervious gloves (EN 374).
 Respiratory Protection	Normally no personal respiratory protection is necessary.
 Thermal hazards	None known.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

For complete information see the product datasheet.

Appearance	Liquid
Colour:	Colourless
Odour:	Ester Like
Odour threshold:	Not known
PH:	Not known
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	ca.100 °C (1,013 hPa)
Flash Point:	10 °C (DIN 51755) (methyl methacrylate)
Evaporation rate:	Not known
Flammability (solid, gas):	Not known
Upper/lower flammability or explosive limits:	12.5 %(V) (methyl methacrylate); 2.1 %(V) at 10.5 °C (methyl methacrylate)
Vapour pressure:	Not known
Vapour density:	> 1 (20 °C)
Density (g/ml):	0.99 g/cm ³ (20 °C)
Relative density:	Not known
Solubility(ies)	Solubility (Water): Not known Solubility (Other): Not known
Partition coefficient: n- octanol/water:	Not available
Auto-ignition temperature:	Not known
Decomposition Temperature (°C)	Not known
Viscosity:	630 - 940 mPa·s (23 °C), (Brookfield)
Explosive properties:	Not known
Oxidising properties:	Not known
9.2 Other information	None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	None anticipated.
10.2 Chemical stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid:	Avoid friction, sparks, or other means of ignition.
10.5 Incompatible materials:	Not known.
10.6 Hazardous decomposition products:	No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects:**

Acute toxicity - Ingestion:	LD50 rat, OECD 401, Related to substance: methyl methacrylate LD50 rat, Related to substance: 2-ethylhexyl acrylate LD50 rat, Related to substance: N,N- bis-(2-hydroxypropyl)-p- > 5,000 mg/kg 4,435 mg/kg 25 - 200 toluidine mg/kg
Acute toxicity - Skin Contact:	LD50 rabbit, Related to substance: methyl methacrylate, > 5,000 mg/kg Practically non-toxic in contact with skin LD50 rabbit, Related to substance: 2- ethylhexyl acrylate > 5,000 mg/kg

SECTION 11: TOXICOLOGICAL INFORMATION (continue)

Acute toxicity - Inhalation:	LC50 rat, Related to substance: methyl methacrylate 29.8 mg/l LCLo mouse, Related to substance: 2-ethylhexyl acrylate 0.6 mg/l
Skin corrosion/irritation:	Causes skin irritation. Properties of components in summary. Related to substance: product irritating
Serious eye damage/irritation:	Contact with the eyes may cause irritation. Properties of components in summary. Related to substance: product
Skin sensitization data:	In sensitization tests on guinea pigs with and without adjuvant, both positive and negative results were found. In humans various types of allergic reactions have been observed (symptoms: headache, eye irritations, skin affections). Related to substance: methyl methacrylate May cause sensitisation by skin contact. Related to substance: 2-ethylhexyl acrylate
Respiratory sensitization data	In sensitization tests on guinea pigs with and without adjuvant, both positive and negative results were found. In humans various types of allergic reactions have been observed (symptoms: headache, eye irritations, skin affections). Related to substance: methyl methacrylate May cause sensitisation by skin contact. Related to substance: 2-ethylhexyl acrylate
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	Several long-term skin painting studies for carcinogenicity in mice were conducted and gave contradictory results. On the basis of all existing information no definite conclusion on a cancerogenic activity can be drawn. Related to substance: 2-ethylhexyl acrylate
Reproductive toxicity	Not classified
Lactation	Not classified
STOT - single exposure	Causes damage to organs. May cause respiratory irritation. Hazard category 3 H335
STOT - repeated exposure	Not classified
Aspiration hazard	Not applicable
11.2 Other information	Not known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
Toxicity - Aquatic invertebrates	EC50 Daphnia magna, 79/831/EEC V, C, 24 h 50.32 mg/l Related to substance: 2-ethylhexyl acrylate EC50 Daphnia magna, 79/831/EEC V, C, 48 h 17.45 mg/l Related to substance: 2-ethylhexyl acrylate EC50 Daphnia magna, OECD 202, flow through, 48 h 69 mg/l Related to substance: methyl methacrylate
Toxicity - Fish	LC50 Leuciscus idus, fish test according to Mann, DEV L15, 48 h 23 mg/l. Related to substance: 2-ethylhexyl acrylate LC50 Oncorhynchus mykiss, rainbow trout, OECD 203, flow > 79 mg/l through, GLP, 96 h Related to substance: methyl methacrylate
Toxicity - Algae	LC50 Scenedesmus subspicatus, OECD 201, 72 h 44 mg/l Related to substance: 2-ethylhexyl acrylate EC3 Scenedesmus quadricauda, DIN 38412 section 9, 8 d 37 mg/l Related to substance: methyl methacrylate
Toxicity - Sediment Compartment	Not classified
Toxicity - Terrestrial Compartment	Not classified
12.2 Persistence and Degradation	Biodegradable (monomer constituent)
12.3 Bioaccumulative potential	No specific test data available no evidence for hazardous properties (structure- activity-relationships) (analogy)
12.4 Mobility in soil	No test data available
12.5 Other adverse effects	Not known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator.
13.2 Additional Information	Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number:	1866
14.2 UN proper shipping name:	RESIN SOLUTION, flammable (vapour pressure at 50 °C more than 110 kPa)
14.3 Transport Hazard Class(es):	
ADR/RID	
ADR/RID Class	3
ADR Classification Code	F1

SECTION 14: TRANSPORT INFORMATION (continue)

Special Provisions	640C
Limited Quantities	5 L
Excepted Quantities	E2
Emergency Action Code	•3YE
ADR Classification Code	F1
Mixed Packing Instructions for Packages	P001
Special Packing Provisions for Packages	PP1
Mixed Packing Instructions for Packages	MP19
Packing Instructions for Portable Tanks	T4
Special Provisions for Portable Tanks	TP1 TP8
Tank Code for Tanks	L1.5BN
Special Provisions for Tanks	Not applicable
Vehicle for Tank Carriage	FL
ADR Transport Category	2
Tunnel Restriction Code	D/E
Special Provisions for Carriage - Packages	Not applicable
Special Provisions for Carriage - Bulk	Not applicable
Special Provisions for Carriage - Loading, Unloading and Handling	Not applicable
Special Provisions for Carriage - Operation	S2 S20
ADR HIN	33
IMDG	
IMDG Class	3
Special Provisions	640C
Limited Quantities	5 L
Excepted Quantities	E2
Mixed Packing Instructions for Packages	P001
Special Packing Provisions for Packages	PP1
Packing Instructions for Portable Tanks	T4
Special Provisions for Portable Tanks	TP1 TP8
IMDG EMS	F-E,
Stowage and Handling	B
Segregation	Not determined
ICAO/IATA	
Excepted Quantities	E2
Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Y341
Passenger and Cargo Aircraft Limited Quantities Max net Qty	1L
Passenger and Cargo Aircraft Packing Instructions	353
Passenger and Cargo Aircraft Max net Qty	5L
Cargo Aircraft Packing Instructions	364
Cargo Aircraft Max net Qty	60L
Special Provisions	Not applicable
Emergency Response 3L Guidebook (ERG) Code	3L
Labels	
Label	3



14.4 Packing Group	II
14.5 Environmental hazards	Not classified as a Marine Pollutant.
14.6 Special precautions for user	Not known
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	No information available

SECTION 15: REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Toxic and hazardous substances (29 CFR 1910; Subpart Z)	Listed: 80-62-6
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SECTION 15: REGULATORY INFORMATION (continue)

National emission standards for hazardous air pollutants (40 CFR 61.01)	Not listed
SARA Title III Section 313	Not listed
TSCA (Toxic Substance Control Act)	Listed: 80-62-6, 103-11-7
CAA 602 - Ozone Depleting Substances (ODS)	Not listed
15.2 Other	
OSPAR List of Chemicals for Priority Action:	Not listed
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives):	Not listed
NTP (National Toxicology Program)	Not listed
IARC (International Agency for Research on Cancer)	Listed: 80-62-6, 103-11-7

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

Hazard Pictogram



GHS02 GHS06 GHS08 GHS07

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
H227: Combustible liquid
H300: Fatal if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H320: Causes eye irritation.
H335: May cause respiratory irritation.
H370: Causes damage to organs.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor.
P312: Call a POISON CENTER/doctor if you feel unwell.
P321: Specific treatment (see Medical Advice on this label).
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use to extinguish.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P501: Dispose of contents in accordance with local, state or national legislation.

Passenger aircraft/rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
LTEL: Long term exposure limit
PBT: Persistent, Bioaccumulative and Toxic
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL: Short term exposure limit
STOT: Specific Target Organ Toxicity
UN: United Nations
vPvB: very Persistent and very Bioaccumulative

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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

1.1 Product Identifier

Product Name: Jointex XFH (Hardener) Part B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s): Resin component of the two-pack flexible joint filler.

Uses Advised Against: None known

1.3 Details of the supplier of the safety data sheet

Company Name: Polycote UK LLP

Centre Point
Wolseley Road
Woburn Road Industrial Estate
Kempston
Beds
MK42 7EF

Telephone Number: 01234 846400

Emergency Contact Number: 111 (NHS England)

Email address: uksales@polycote.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Regulation (EC) No. 1272/2008 (CLP):

Acute Tox. 4: Harmful if swallowed.

Flam. Sol. 2: Flammable solid.

Org. Perox. B: Heating may cause a fire or explosion.

Resp. Sens. 1B: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1A: May cause an allergic skin reaction.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP):

Hazard pictograms:



Signal word:

Danger

Hazard statements:

H228: Flammable solid.

H241: Heating may cause a fire or explosion.

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements:

None

2.3 Other hazards:

None known.

2.4 Additional Information:


For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Not applicable

3.2 Mixtures:

Hazardous Ingredient(s)	CAS No.	EC No. / REACH Registration No	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
PIGMENT ADDITIVE 009		432-260-1	0.00	Not classified	
barium sulfate	7727-43-7	231-784-4	0.00	Not classified	
dibenzoyl peroxide benzoyl peroxide	94-36-0	202-327-6 2119511472-50	0.00	Org. Perox. B H241 Skin Sens. 1 H317 Eye Irrit. 2 H319	

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures:

By inhalation:

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

By skin contact:

Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label).

By eye contact:

Treat symptomatically.

By ingestion/aspiration:

Rinse mouth. Immediately call a POISON CENTER/doctor

SECTION 4: FIRST-AID MEASURES (continue)

4.2 Most important symptoms and effects, both acute and delayed

Allergic contact dermatitis

4.3 Indication of any immediate medical attention and special treatment needed:

Specific treatment (see Medical Advice on this label). If experiencing respiratory symptoms: Call a POISON CENTER/doctor. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Use to extinguish

Unsuitable extinguishing media

None

5.2 Special hazards arising from the substance or mixture:

Flammable solid. Heating may cause a fire or explosion. Explosion risk.

5.3 Advice for firefighters:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions:

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up:

Sweep up spilled substance and remove to safe place. Use vacuum equipment for collecting spilt materials, where practicable.

6.4 Reference to other sections:

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original packaging. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapours/spray. [In case of inadequate ventilation] wear respiratory protection.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Protect from sunlight. Store separately.

Storage temperature:

Store at temperatures not exceeding °C/°F.

Storage life:

Stable under normal conditions.

Incompatible materials:

None known.

7.3 Specific end use(s)

The filler component of a two-pack flexible joint sealant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
Substance	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Barium sulphate inhalable dust	7727-43-7		10			
Barium sulphate respirable dust	7727-43-7		4			
Dibenzoyl peroxide	94-36-0		5			





Region	Source
Europe	EU Occupational Exposure Limits
United Kingdom	Workplace Exposure Limits (WEL)
Remark	Notes

8.2 Exposure controls:

8.2.1. Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction. A washing facility/water for eye and skin cleaning purposes should be present.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**8.2.2. Personal protection equipment**

Pictogram	Remarks
 Eye Protection	Wear eye protection with side protection (EN166).
 Skin Protection	Wear protective clothing and gloves: Impervious gloves (EN 374).
 Respiratory Protection	Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment. The use of a high efficiency filter (EN143) is recommended. PF200: 200 x Protection Factor.
 Thermal hazards	None known.

8.2.3. Environmental exposure controls:

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

For complete information see the product datasheet

Appearance

Colour:	Solid
Odour:	White Powder
Odour threshold:	Faint
PH:	No data available
Melting point/freezing point:	Not known
Initial boiling point and boiling range:	Decomposes before melting
Flash Point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not known
Upper/lower flammability or explosive limits:	Decomposition products may be flammable
Vapour pressure:	No data available
Vapour density:	Not known
Density (g/ml):	Not known
Relative density:	540kg/m3 at 20°C
Solubility(ies)	1.895 at 20°C
Partition coefficient: n- octanol/water:	Solubility (Water): At 20°C insoluble
Auto-ignition temperature:	Solubility (Other): Not known
Decomposition Temperature (°C)	Not known
Viscosity:	Not known
Explosive properties:	Not known
Oxidising properties:	Not Explosive

9.2 Other information

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	None anticipated.
10.2 Chemical stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid:	Avoid friction, sparks, or other means of ignition. Keep away from heat and direct sunlight.
10.5 Incompatible materials:	Not known.
10.6 Hazardous decomposition products:	No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity - Ingestion:	Self classification: Harmful if swallowed.
Acute toxicity - Skin Contact:	Low acute toxicity
Acute toxicity - Inhalation:	Low acute toxicity
Skin corrosion/irritation:	Non-irritant
Serious eye damage/irritation:	Non-irritant
Skin sensitization data:	Self classification: May cause an allergic skin reaction.
Respiratory sensitization data	Self classification: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity
Reproductive toxicity	Not classified
Lactation	Not classified
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration hazard	Not classified
11.2 Other information	Not known

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	
Toxicity - Algae	Low toxicity to algae.

Toxicity - Sediment Compartment	Not classified
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Toxicity - Terrestrial Compartment	Not classified
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12.2 Persistence and Degradation	Not known
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12.3 Bioaccumulative potential	Not known
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12.4 Mobility in soil	Not known
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12.5 Results of PBT and vPvB assessment	Not known
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12.6 Other adverse effects	Not known
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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Normal disposal is via incineration operated by an accredited disposal contractor. Dispose at suitable refuse site.
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13.2 Additional Information	Disposal should be in accordance with local, state or national legislation.
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SECTION 14: TRANSPORT INFORMATION

14.1 UN number:	3104
14.2 UN proper shipping name:	ORGANIC PEROXIDE TYPE C, SOLID
14.3 Transport Hazard Class(es):	
ADR/RID	
ADR/RID Class	5.2
ADR Classification Code	P1
Special Provisions	122 274
Limited Quantities	100g
Excepted Quantities	E0
Emergency Action Code	1WE
Mixed Packing Instructions for Packages	P520
Special Packing Provisions for Packages	Not applicable
Mixed Packing Instructions for Packages	MP4
Packing Instructions for Portable Tanks	Not applicable
Special Provisions for Portable Tanks	Not applicable
Tank Code for Tanks	Not applicable
Special Provisions for Tanks	Not applicable
Vehicle for Tank Carriage	Not applicable

SECTION 14: TRANSPORT INFORMATION (continue)

ADR Transport Category	1
Tunnel Restriction Code	D
Special Provisions for Carriage - Packages	V1
Special Provisions for Carriage - Bulk	Not applicable
Special Provisions for Carriage - Loading, Unloading and Handling	CV15 CV20 CV22 CV24
Special Provisions for Carriage - Operation	S8 S18
ADR HIN	Not applicable

IMDG

IMDG Class	5.2
Special Provisions	122 274
Limited Quantities	100g
Excepted Quantities	E0
Mixed Packing Instructions for Packages	P520
Special Packing Provisions for Packages	Not applicable
Packing Instructions for Portable Tanks	Not applicable
Special Provisions for Portable Tanks	Not applicable
IMDG EMS	Not applicable
Stowage and Handling	Not applicable
Segregation	Not determined

ICAO/IATA

Excepted Quantities	E0
Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Forbidden for transport by air.
Passenger and Cargo Aircraft Limited Quantities Max net Qty	Forbidden for transport by air.
Passenger and Cargo Aircraft Packing Instructions	570
Passenger and Cargo Aircraft Max net Qty	10Kg
Cargo Aircraft Packing Instructions	570
Cargo Aircraft Max net Qty	10Kg
Special Provisions	A20, A150, A802
Emergency Response 3L Guidebook (ERG) Code	5L

Labels

Label	5.2
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14.4 Packing Group	Not applicable
14.5 Environmental hazards	Not classified as a Marine Pollutant
14.6 Special precautions for user	Not known
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	No information available

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****European Regulations - Authorisations and/or Restrictions On Use**

Candidate List of Substances of Very High Concern for Authorisation	Not listed
REACH: ANNEX XIV list of substances subject to authorisation	Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
Community Rolling Action Plan (CoRAP)	Not listed
Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants	Not listed
Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer	Not listed
Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals	Not listed

National regulations

Other	Not known
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15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

Hazard Pictogram



GHS01 GHS02 GHS07 GHS08

Hazard classification

Eye Irrit. 2: Serious eye damage/irritation, Category 2
Org. Perox. B: Organic peroxide, Category B
Skin Sens. 1: Skin sensitization, Category 1

Hazard Statement(s)

H228: Flammable solid.
H241: Heating may cause a fire or explosion.
H302: Harmful if swallowed.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234: Keep only in original packaging.
P235: Keep cool.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P284: [In case of inadequate ventilation] wear respiratory protection.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P321: Specific treatment (see Medical Advice on this label).
P330: Rinse mouth.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364: Take off contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use to extinguish.
P370+P380+P375+P378: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Use to extinguish.
P403: Store in a well-ventilated place.
P410: Protect from sunlight.
P411: Store at temperatures not exceeding °C/°F.
P420: Store separately.

Passenger aircraft/rail

P501: Dispose of contents in accordance with local, state or national legislation.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL: Derived No Effect Level
EC: European Community
EINECS: European Inventory of Existing Commercial Chemical Substances
IATA: International Air Transport Association
IBC: Intermediate Bulk Container
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
LTEL: Long term exposure limit
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL: Short term exposure limit
STOT: Specific Target Organ Toxicity
UN: United Nations
vPvB: very Persistent and very Bioaccumulative

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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