

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Mixture
Trade name	: Wirelock Sling: Part B – Catalyst / Hardener
Type of product	: Mixture, Resin Socketing System
Product group	: Chemicals

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

1.2.1. Relevant identified uses

Main use category	: Industrial / professional use only Must only be used together with Part A – Resin System (and Booster where required)
Use of the substance/mixture	: Use as a cold socketing compound (for the attachment of sockets to wire rope in bridges etc)

1.2.2. Uses advised against

All other uses not specified in section 1.2.1

1.3. Details of the supplier of the safety data sheet

Company	: Millfield Enterprises (Manufacturing) Limited
Address	: Shelley Road, Newburn Industrial Estate Newburn, Newcastle Upon Tyne, NE15 9RT United Kingdom
Telephone	: +44 (0) 191 264 8541
E-mail	: mail@millfield-group.co.uk

1.4. Emergency telephone number

Emergency number	: +44 (0)191 264 8541 (Available hours: 9am - 5pm, Monday - Friday) +44 (0) 7939 616529 (Available hours: 24 hours a day) UK National Poisons Information Service (Telephone information service) 0870 600 6266 (24 hours)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Organic peroxides, Type G	
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

For the full text of H statements, see section 16.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms (CLP)



GHS09

Signal word (CLP)	: [None required]
Product identifier	: Part B – Catalyst / Hardener
Hazard statements (CLP)	: H411- Toxic to aquatic life with long lasting effects.
EUH-statements	: EUH208 - Contains dibenzoyl peroxide. May produce an allergic reaction.
Precautionary statements (CLP)	: P273 - Avoid release to the environment. P391 - Collect spillage. P501 - Dispose of contents/container as hazardous waste.

2.3. Other hazards not contributing to the classification

This mixture contains no components considered to be persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB) or identified as having endocrine disrupting properties at levels of 0.1% or higher.

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This product contains an inert coarse sand which is not hazardous to health or the environment. The sand does not contain any respirable crystalline silica which is hazardous to human health. Respirable crystalline silica (quartz) may be generated if the product is ground, abraded or otherwise processed.

In its undiluted state (100%), dibenzoyl peroxide is classified as Organic Peroxides, Type B (may undergo a thermal explosion in packaging). The dibenzoyl peroxide concentration in Part B of the Wirelock kit is 1%, thus the mixture is much more stable and downgraded to a Type G classification. This has been determined experimentally, though no data has been generated.

A polymerisation reaction occurs when the resin system (Part A) is combined with the catalyst / hardener (Part B) which has the potential to generate significant heat. The product has a powerful bonding action on end use. Users should take appropriate precautions.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Quartz	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4 (REACH-no) Exempt	99 - 100	Not classified
Dibenzoyl peroxide	(CAS-No.) 94-36-0 (EC-No.) 202-327-6 (REACH-no) Not available	< 1	Org. Perox. B, H241. Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

For the full text of H-statements, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Call a poison centre or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: Dust from this product may cause respiratory irritation. Dusts are mechanical irritants.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Dusts are mechanical irritants.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Non flammable.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire	: Avoid generation of dust. Appropriate self-contained breathing apparatus may be required.
Firefighting instructions	: No special requirements.
Protective equipment for firefighters	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid breathing dust. Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.

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Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Measures in case of dust release : Avoid breathing dust. Mechanically ventilate the spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Avoid release to the environment. Refer to special instructions/Safety data sheets. Collect in closed containers for disposal.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information, refer to section 8 (Exposure controls and personal protection) and section 13 (Disposal considerations).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

Refer to Wirelock technical data manual for instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dibenzoyl peroxide	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Austria	-	5 inhalable aerosol	-	10 inhalable aerosol
Belgium	-	5	-	-
Denmark	-	5	-	10
Finland	-	5	-	10
France	-	5	-	-
Germany (AGS)	-	5 inhalable aerosol	-	5 inhalable aerosol
Germany (DFG)	-	5	-	5
Hungary	-	5	-	-
Ireland	-	5	-	-
Norway	-	5	-	-
Poland	-	5	-	10
Spain	-	5	-	-
Switzerland	-	5 inhalable aerosol	-	5 inhalable aerosol
United Kingdom	-	5	-	-

Quartz	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Austria	-	0.05 (respirable fraction)	-	-
Belgium	-	0.1 (respirable dust)	-	-
Denmark	-	0.3 (inhalable aerosol) 0.1 (respirable aerosol)	-	0.6 (inhalable aerosol) 0.2 (respirable aerosol)

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Finland	-	0.05 (respirable fraction)	-	-
France	-	0.1 (respirable aerosol)	-	-
Germany (AGS)	-	0.05 (respirable fraction)	-	0.4 (respirable fraction)
Hungary	-	0.1 (respirable fraction)	-	-
Ireland	-	0.1 (respirable fraction)	-	-
Norway	-	0.3 (inhalable fraction) 0.05 (respirable fraction)	-	-
Poland	-	0.1 (respirable fraction)	-	-
Spain	-	0.05 (respirable fraction)	-	-
Sweden	-	0.1 (respirable fraction)	-	-
Switzerland	-	0.15 (respirable aerosol)	-	-
The Netherlands	-	0.075 (respirable fraction)	-	-
United Kingdom	-	0.1 (as respirable crystalline silica)	-	-

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the workplace. A washing facility/water for eye and skin cleaning purposes should be present. Provide local exhaust or general room ventilation to minimize exposure to dust.

Personal protective equipment:

Dust formation: dust mask. Dustproof clothing. Gloves. Protective goggles.

Materials for protective clothing:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust)

Hand protection:

Wear chemical resistant gloves (PVC, nitrile rubber, neoprene) to EN 374 or equivalent.

Eye protection:

Safety glasses with side shields. In case of dust production: protective goggles. Contact lenses should not be worn. Use equipment for eye protection tested and approved under appropriate standards such as EN 166.

Skin and body protection:

Wear suitable protective clothing. Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust)

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Half mask with a particle filter P2 (EN 143).

Personal protective equipment symbol(s):



Thermal hazard protection:

Not applicable.

Environmental exposure controls:

Avoid release to the environment.

Consumer exposure controls:

For industrial/professional use only. Not intended for use by the general public.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good occupational hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: No data available
Odour	: No data available.
Odour threshold	: No data available
pH	: Not applicable for a powdered solid

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Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable for a solid
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Density	: No data available
Solubility	: No data available.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: No data available.
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: Not applicable for a powdered solid
Serious eye damage/irritation	: Not classified pH: Not applicable for a powdered solid
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Dibenzoyl peroxide; benzoyl peroxide (94-36-0)

IARC group	3 - Not classifiable
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Quartz (14808-60-7)

IARC group	1 - Carcinogenic to humans
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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

11.2. Information on other hazards

The mixture does not contain components considered to have endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Ecology - water	: Toxic to aquatic life with long lasting effects.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

Dibenzoyl peroxide (CAS no 94-36-0)	
Toxicity to fish	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - 0.06 mg/l - 96 h (Benzoyl peroxide) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 0.11 mg/l - 48 h (Benzoyl peroxide) (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0.0711 mg/l - 72 h (Benzoyl peroxide) (OECD Test Guideline 201) static test NOEC - Pseudokirchneriella subcapitata (green algae) - 0.02 mg/l - 72 h (Benzoyl peroxide) (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - 35 mg/l - 0.5 h (Benzoyl peroxide) (OECD Test Guideline 209)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test EC10 - Daphnia magna (Water flea) - 0.001 mg/l - 21 d (Benzoyl peroxide) (OECD Test Guideline 211)

12.2. Persistence and degradability

Dibenzoyl peroxide (CAS no 94-36-0)	
Biodegradability	aerobic - Exposure time 28 d (Benzoyl peroxide) Result: 71 % - Readily biodegradable. (OECD Test Guideline 301D)

12.3. Bioaccumulative potential

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.4. Mobility in soil

Quartz (14808-60-7)	
Ecology – soil	Low mobility (soil).

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

The mixture does not contain components considered to have endocrine disrupting properties.

12.7. Other adverse effects

Additional information	: Avoid release to the environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose of contents/container as hazardous waste in accordance with local/national regulations. Do not empty into drains.
Ecology - waste materials	: Avoid release to the environment.

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SECTION 14: Transport information

Note: Wirelock is sold as a two-pack polyester resin kit, comprising of two components: a liquid polyester resin (Part A) and a solid catalyst hardener (Part B). The requirements of REACH (Regulation (EC) No 1907/2006) and CLP (Regulation (EC) No 1272/2008) mean that the two parts must be treated separately for the purposes of hazard classification, labelling and the provision of SDS. This means that the information in this section must consider each part separately. However, for transport purposes, the kit can be regarded as a single product because both parts are packaged and shipped together. As a result, the UN number and name indicated below may be assigned and provides the correct information about the product being shipped, i.e. a polyester resin kit, and covers the hazards associated with the product for the purposes of transport of dangerous goods legislation.

UN Number:	UN3269
Proper shipping name:	Polyester Resin Kit
Hazard class:	Class 3 (Flammable Liquid)
Packing Group:	III

In accordance with the requirements of REACH (Regulation (EC) No 1907/2006):

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

IBC code : Not applicable.

IBC product name : Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions.

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

The following Directives may apply:

- Directive 2012/18/EU (SEVESO III)
- Directive 98/24/EC (Chemical Agents Directive)
- Directive 2004/37/EC (Carcinogens and Mutagens Directive)

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

SECTION 16: Other information

Sources of Key data	: Regulation (EC) No 1907/2006 (REACH) Regulation (EC) No 1272/2008 (CLP) GESTIS Substance Database Registration, classification and labelling information publicly available on the ECHA website
Training advice	: Chemical hazard and risk management awareness training, including labelling, SDS, risk management measures and workplace hygiene. Should include use of PPE, covering appropriate selection, compatibility, breakthrough times, care, maintenance, fit and safe removal. First aid & emergency response awareness training for chemical exposure, including the use of emergency equipment such as eye washes, safety showers etc as appropriate.
Classification method(s)	: Procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP): Calculation method
Creation date	: 11/07/2018
Revision date	: 06/08/2023, version 6 (replaces version 5, dated 08/08/2022)
Revision summary	: General updates to comply with updated requirements of REACH Annex II by virtue of Commission Regulation (EU) 2020/878 Sections 2 and 3: Hazard classification and labelling updates Section 8: Control parameters added for EU Member States Section 14: Clarifications added in relation to transport information taking into account the way in which the product is shipped when compared to the requirements of REACH and CLP.

Full text of H- and EUH-statements:

H241	Heating may cause a fire or explosion.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH208	Contains dibenzoyl peroxide. May produce an allergic reaction.

Abbreviations and acronyms used:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
bw	Body weight
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EN	European Norm, i.e. European Standard (published by the European Committee for Standardisation, CEN)
GHS	UN Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ISO	International Standard (published by the International Organisation for Standardisation, ISO)
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal Concentration to 50 % of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose);
MARPOL	International Convention for the Prevention of Pollution from Ships
mg/m ³	Milligrams per cubic metre

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n.o.s.	Not Otherwise Specified
NOEC	No observed effect concentration
PBT	Persistent, Bioaccumulative and Toxic substance
ppm	Parts per million
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SADT	Self-Accelerating Decomposition Temperature
SDS	Safety Data Sheet
STOT	Specific target organ toxicity
UN	United Nations
vPvB	Very Persistent and Very Bioaccumulative

SDS EU (REACH Annex II)

The above information is believed to be correct but does not purport to be exhaustive and shall be used only as a guide. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.