# PART B – CATALYST / HARDENER

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) as amended

Revision date: 29/07/2025 Version: 6.3

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

### 1.1. Product identifier

| | |
|---|---|
| Product form | : Mixture |
| Trade name | : Wirelock: 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<br>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<br>Newburn, Newcastle Upon Tyne, NE15 9RT<br>United Kingdom |
| Telephone | : +44 (0) 191 264 8541 |
| E-mail | : mail@millfield-group.co.uk |

### 1.4. Emergency telephone number

| | |
|---|---|
| Emergency number | : Tel: +1-813-248-0585 (24 hours) – VelocityEHS<br>Add. Tel. +1-800-255-3924 (US, Canada, Puerto Rico & Virgin Islands) (24 hours)<br>UK National Poisons Information Service 0870 600 6266 (24 hours) |

## 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 3 H412

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) | : *[None required]* |
| Signal word (CLP) | : *[None required]* |
| Product identifier | : Part B – Catalyst / Hardener |
| Hazard statements (CLP) | : H412 - Harmful 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. |

### 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.

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 by our manufacturer experimentally, though no test data has been given.

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<br>(EC-No.) 238-878-4<br>(REACH-no) Exempt | 99 - 100 | Not classified |
| Dibenzoyl peroxide | (CAS-No.) 94-36-0<br>(EC-No.) 202-327-6<br>(REACH-no) Not available | < 1 | Org. Perox. B, H241.<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Acute 1; H400 (M Factor = 10)<br>Aquatic Chronic 1; H410 (M Factor = 1) |

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.

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/m³** | **ppm** | **mg/m³** |
| 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/m³** | **ppm** | **mg/m³** |
| Austria | - | 0.05 (respirable fraction) | - | - |
| Belgium | - | 0.1 (respirable dust) | - | - |
| Denmark | - | 0.3 (inhalable aerosol)<br>0.1 (respirable aerosol) | - | 0.6 (inhalable aerosol)<br>0.2 (respirable aerosol) |
| 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)<br>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 |
| 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<br>pH: Not applicable for a powdered solid |
| Serious eye damage/irritation | : Not classified<br>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 |

| **Quartz (14808-60-7)** | |
|---|---|
| IARC group | 1 - Carcinogenic to humans |

| | |
|---|---|
| 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 : Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Harmful 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)<br>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)<br>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.

## 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.

## 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 for product as supplied.

IBC product name : Not applicable for product as supplied.

## 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)

#### 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.<br>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):<br>Calculation method |
| Creation date | : 11/07/2018 |
| Revision date | : 29/07/2025, version 6.2 (replaces version 6.2, dated 04/12/2023) |
| Revision summary | : Change to emergency contact information in section 1. |

| **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. |
| H412 | Harmful 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 |
| 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.*