

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

#### 1.1. Product identifier

Product form : Mixture  
 Product name : Furseweld Exothermic Welding Powder (Starter)  
 Product codes : 15P10, 25P10, 32P10, 45P10, 65P10, 90P10, 115P10, 150P10, 200P10 & 250P10.

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use  
 Use of the substance/mixture : A starter powder used in conjunction with Furseweld™ welding materials. This product is not sold separately to the Furseweld™ Main Exothermic Welding Powder.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

ABB Furse  
 Wilford Road, Nottingham  
 United Kingdom  
 NG2 1EB

Tel: +44 (0) 115 964 3700 Fax: +44 (0) 115 986 0071  
 www.furse.com

#### 1.4. Emergency telephone number

Emergency number : Tel: +44 (0) 115 964 3700

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

|                     |      |
|---------------------|------|
| Flam. Sol. 1        | H228 |
| Acute Tox. 4 (Oral) | H302 |
| Eye Dam. 1          | H318 |
| Aquatic Acute 1     | H400 |
| Aquatic Chronic 1   | H410 |

Full text of hazard classes, H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS05

GHS07

GHS09

Signal word (CLP) :

Danger

Contains :

Copper(I) oxide

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|  |   |
|--|---|
| Hazard statements (CLP)                          | : H228 - Flammable solid.<br>H302 - Harmful if swallowed.<br>H318 - Causes serious eye damage.<br>H410 - Very toxic to aquatic life with long lasting effects.  |
| Precautionary statements (CLP)                   | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.<br>P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.<br>P391 - Collect spillage. |
| Unknown acute toxicity (CLP) - SDS               | : 75% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>30% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))  |
| Unknown hazards to the aquatic environment (CLP) | : Contains 25 % of components with unknown hazards to the aquatic environment   |

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## 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]   |
|-----------------------|---|---------|---|
| Aluminum*<br>(Note T) | CAS-No.: 7429-90-5<br>EC-No.: 231-072-3<br>EC Index-No.: 013-002-00-1                               | 40 – 50 | Not classified.   |
| Copper(I) oxide       | CAS-No.: 1317-39-1<br>EC-No.: 215-270-7<br>EC Index-No.: 029-002-00-X                               | 20 – 30 | Acute Tox. 4 (Oral), H302 (ATE=470 mg/kg bodyweight)<br>Acute Tox. 4 (Inhalation), H332 (ATE=3.69 mg/l/4h)<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=10) |
| Copper oxide (CuO)    | CAS-No.: 1317-38-0<br>EC-No.: 215-269-1<br>EC Index-No.: 029-016-00-6<br>REACH-no: 01-2119502447-44 | 1 – 5   | Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=10)   |

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Note T : This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

\*This substance does not contribute to any health hazards indicated in section 2 of this document.

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.  |
| First-aid measures after skin contact | : If skin irritation occurs: Obtain medical attention if irritation persists.   |
| 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. Immediately call a POISON CENTER/doctor.                               |
| First-aid measures after ingestion    | : IF SWALLOWED: Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell. |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract. Inhalation of fumes may cause metal fume fever.   |
| Symptoms/effects after skin contact | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. Risk of thermal burns on contact with molten product.   |
| Symptoms/effects after eye contact  | : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns. Risk of thermal burns on contact with molten product. |
| Symptoms/effects after ingestion    | : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.  |

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water. Dry sand. Water fog. Carbon dioxide (CO <sub>2</sub> ). |
| Unsuitable extinguishing media | : Do not use water jet.  |

#### 5.2. Special hazards arising from the substance or mixture

|                  |  |
|------------------|--|
| Fire hazard      | : Flammable solid. Products of combustion may include, and are not limited to: oxides of carbon. Metallic oxides. If ignition temperatures exceed 454°C/850°F for the starting weld metal and 954°C/1750°F for the main weld metal, the material may be accidentally ignited. In this case, large amounts of water should hinder and then control the spread of fire. The ignition of large amounts of weld metal could possibly result in varying volumes of smoke. |
| Explosion hazard | : May form flammable/explosive vapour-air mixture.   |

#### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Move containers from fire area if you can do it without risk. Cool closed containers exposed to fire with water spray. |
| Protection during firefighting | : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).       |

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment. Collect spillage.

#### 6.3. Methods and material for containment and cleaning up

For containment : Remove ignition sources. Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. No open flames. No smoking.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands, forearms and face thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Protect from moisture. Protect containers from physical damage. Keep away from heat and direct sunlight. Keep in fireproof place.

Incompatible materials : Oxidizing agents. Acids. Alkalis.

#### 7.3. Specific end use(s)

Not available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. National occupational exposure and biological limit values

| Aluminum (7429-90-5)                   |  |
|--|--|
| Ireland - Occupational Exposure Limits |  |
| OEL TWA [1]                            | 1 mg/m <sup>3</sup> (respirable fraction)        |
| OEL STEL                               | 3 mg/m <sup>3</sup> (calculated-respirable dust) |

##### 8.1.2. Recommended monitoring procedures

| Monitoring methods |   |
|--------------------|---|
| Monitoring methods | Consult the relevant monitoring standards for the region. |

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

Additional information : Not applicable

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Equipment must be suitable for welding purposes.

###### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

###### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

###### 8.2.2.3. Respiratory protection

###### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

###### 8.2.2.4. Thermal hazards

###### Thermal hazard protection:

Use personal protective equipment as required.

##### 8.2.3. Environmental exposure controls

###### Environmental exposure controls:

Avoid release to the environment.

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### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                        |
|---|------------------------|
| Physical state                                  | : Solid (Granules)     |
| Colour  | : Silver. Grey.        |
| Odour   | : Mild characteristic. |
| Odour threshold                                 | : Not available        |
| Melting point                                   | : No data available    |
| Freezing point                                  | : Not available        |
| Boiling point                                   | : Not applicable       |
| Flammability                                    | : Flammable solid.     |
| Explosive properties                            | : Not applicable.      |
| Explosive limits                                | : Not applicable       |
| Lower explosion limit                           | : Not applicable       |
| Upper explosion limit                           | : Not applicable       |
| Flash point                                     | : Not applicable       |
| Auto-ignition temperature                       | : > 955 °C             |
| Decomposition temperature                       | : Not available        |
| pH  | : Not available        |
| pH solution                                     | : Not available        |
| Viscosity, kinematic                            | : Not applicable       |
| Solubility                                      | : Insoluble in water.  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available        |
| Partition coefficient n-octanol/water           | : Not applicable       |
| Vapour pressure                                 | : Not applicable       |
| Vapour pressure at 50 °C                        | : Not available        |
| Density   | : Not available        |
| Relative density                                | : ≈ 5                  |
| Relative vapour density at 20 °C                | : Not applicable       |
| Particle size                                   | : Not available        |
| Particle size distribution                      | : Not available        |
| Particle shape                                  | : Not available        |
| Particle aspect ratio                           | : Not available        |
| Particle aggregation state                      | : Not available        |
| Particle agglomeration state                    | : Not available        |
| Particle specific surface area                  | : Not available        |
| Particle dustiness                              | : Not available        |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Flammable solid. May form flammable/explosive vapour-air mixture.

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### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Open flame. Direct sunlight. Sparks. Dust formation. Incompatible materials.

### 10.5. Incompatible materials

Oxidizing agents. Acids. Alkalis.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Metallic oxides. May release flammable gases.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified.  
Acute toxicity (inhalation) : Not classified.

#### Furseweld™ Exothermic Starter Powder

|                |                           |
|----------------|---------------------------|
| ATE CLP (oral) | 1566.667 mg/kg bodyweight |
|----------------|---------------------------|

#### Copper(I) oxide (1317-39-1)

|                     |              |
|---------------------|--------------|
| LD50 oral rat       | 470 mg/kg    |
| LD50 dermal rat     | > 2000 mg/kg |
| LC50 inhalation rat | 3.69 mg/l/4h |

#### Copper oxide (CuO) (1317-38-0)

|                 |   |
|-----------------|---|
| LD50 oral rat   | > 2500 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |
| LD50 dermal rat | > 2000 mg/kg  |

#### Aluminum (7429-90-5)

|                     |   |
|---------------------|---|
| LD50 oral rat       | > 15900 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)                 |
| LC50 inhalation rat | > 0.888 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

Unknown acute toxicity (CLP) - SDS : 75% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
30% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Skin corrosion/irritation : Not classified.  
Additional information : Based on available data, the classification criteria are not met.  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitisation : Not classified.  
Additional information : Based on available data, the classification criteria are not met.  
Germ cell mutagenicity : Not classified.  
Additional information : Based on available data, the classification criteria are not met.  
Carcinogenicity : Not classified.  
Additional information : Based on available data, the classification criteria are not met.  
Reproductive toxicity : Not classified.  
Additional information : Based on available data, the classification criteria are not met.

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| Aluminum (7429-90-5)      |  |
|---------------------------|--|
| NOAEL (animal/male, F0/P) | 1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure : Not classified.  
Additional information : Based on available data, the classification criteria are not met.  
STOT-repeated exposure : Not classified.  
Additional information : Based on available data, the classification criteria are not met.

| Aluminum (7429-90-5)                            |   |
|---|---|
| LOAEC (inhalation, rat,dust/mist/fume, 90 days) | 0.05 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |

Aspiration hazard : Not classified.  
Additional information : Based on available data, the classification criteria are not met.

| Furseweld™ Exothermic Starter Powder |                |
|--------------------------------------|----------------|
| Viscosity, kinematic                 | Not applicable |

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### 11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.  
Unknown hazards to the aquatic environment (CLP) : Contains 25 % of components with unknown hazards to the aquatic environment  
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

| Copper(I) oxide (1317-39-1) |  |
|-----------------------------|--|
| EC50 - Crustacea [1]        | 0.51 mg/l (Exposure time: 48 h - Species: Daphnia magna)               |
| EC50 96h - Algae [1]        | 65 mg/l (Species: Desmodesmus subspicatus)                             |
| EC50 96h - Algae [2]        | 0.021 – 0.037 mg/l (Species: Pseudokirchneriella subcapitata)          |
| EC50 96h algae (3)          | 0.055 – 0.076 mg/l (Species: Pseudokirchneriella subcapitata [static]) |

| Aluminum (7429-90-5) |   |
|----------------------|---|
| EC50 72h - Algae [1] | 1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |



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### 12.2. Persistence and degradability

#### Furseweld™ Exothermic Starter Powder

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

### 12.3. Bioaccumulative potential

#### Furseweld™ Exothermic Starter Powder

|                                       |                |
|---------------------------------------|----------------|
| Partition coefficient n-octanol/water | Not applicable |
|---------------------------------------|----------------|

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### Copper(I) oxide (1317-39-1)

|                |                                 |
|----------------|---------------------------------|
| BCF - Fish [1] | (does not generally accumulate) |
|----------------|---------------------------------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

PBT : No

vPvB : No

#### Furseweld™ Exothermic Starter Powder

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### 12.7. Other adverse effects

Additional information : No other effects known

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapours are flammable.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

### 14.1. UN number or ID number

UN-No. (ADR) : UN 3089

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : METAL POWDER, FLAMMABLE, N.O.S. (Limited quantity)

# Furseweld™ Exothermic Welding Powder (Starter)

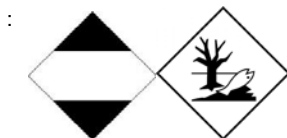
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### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 4.1  
Danger labels (ADR) : 4.1



### 14.4. Packing group

Packing group (ADR) : II

### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available.

### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

#### Overland transport

Limited quantities (ADR) : 1kg. The product as packaged does not exceed this limited quantity.  
Excepted quantities (ADR) : E2  
Orange plates :



### 14.7. Maritime transport in bulk according to IMO instruments

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 REACH candidate substance.

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

##### Ireland

Irish National Regulations : Not determined.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

#### Abbreviations and acronyms

°C – Degrees Celsius  
°F – Degrees Fahrenheit  
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ACGIH – American Conference of Governmental Industrial Hygienists  
ATE – Acute Toxicity Estimate  
BCF – Bioconcentration Factor  
BEI – Biological Exposure Index  
CAS – Chemical Abstracts Service  
CLP – Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.  
CMR – Carcinogen, Mutagen, Reproductive toxin  
cP – centipoise (unit of dynamic viscosity)  
cSt – centistokes (unit of kinematic viscosity)  
DNEL – Derived No-effect Level  
DMEL – Derived Minimal Effect Level  
EC50 – Half maximal effective concentration  
ECHA – European Chemicals Agency  
EC-No. – European Community number  
EU – European Union  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals  
h – Hours  
IATA – International Air Transport Association  
IC50 – Inhibition concentration  
IDLH – Immediately Dangerous to Life or Health  
IMDG – International Maritime Dangerous Goods  
IOELV – Indicative Occupational Exposure Limit Value  
KIFS – Swedish Chemicals Agency's (KemI's) Code of Statutes  
kPa – kilopascal  
Koc – Adsorption Coefficient  
Kow – Octanol-Water Partition Coefficient  
LC50 – Median Lethal Concentration  
LD50 – Median Lethal Dose  
LOAEL – Lowest Observed Adverse Effect level  
mg/l – Milligram per liter  
mg/kg – Milligram per kilogram  
mg/m<sup>3</sup> – Milligram per cubic meter  
Min – Minutes  
NIOSH – National Institute for Occupational Safety and Health  
NOEC – No Observed Effect Concentration  
NO(A)EL – No Observed (Adverse) Effect Level  
N.O.S. – Not Otherwise Specified  
OEL – Occupational Exposure Limit  
PBT - Persistent, Bioaccumulative and Toxic  
PCN – Poison Centre Notification  
PNEC – Predicted No Effect Concentration  
ppm – Parts per million  
PVC – Polyvinyl chloride  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail  
SDS – Safety Data Sheet  
STEL – Short Term Exposure Limit  
STOT – Specific Target Organ Toxicity  
SVHC – Substance of Very High Concern (CMR, vPvB, PBT)  
TDI – Tolerable Daily Intake  
TLV – Threshold Limit Value  
TWA – Time Weighted Average  
UFI – Unique Formulation Identifier  
UN – United Nations

# Furseweld™ Exothermic Welding Powder (Starter)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Abbreviations and acronyms

vPvB - Very Persistent and Very Bioaccumulative  
WEL – Workplace Exposure Limit  
WGK – Wassergefährdungsklasse – German water quality classification

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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### Full text of H- and EUH-statements

|                                     |   |
|-------------------------------------|---|
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4                               |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                  |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1                     | Hazardous to the aquatic environment — Acute Hazard, Category 1   |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |
| Flam. Sol. 1                        | Flammable solids, Category 1                                      |
| H228                                | Flammable solid.  |
| H302                                | Harmful if swallowed.   |
| H318                                | Causes serious eye damage.  |
| H332                                | Harmful if inhaled.   |
| H400                                | Very toxic to aquatic life.                                       |
| H410                                | Very toxic to aquatic life with long lasting effects.             |

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

|                     |      |                    |
|---------------------|------|--------------------|
| Flam. Sol. 1        | H228 | Expert judgment    |
| Acute Tox. 4 (Oral) | H302 | Calculation method |
| Eye Dam. 1          | H318 | Calculation method |
| Aquatic Acute 1     | H400 | Calculation method |
| Aquatic Chronic 1   | H410 | Calculation method |

Safety Data Sheet (SDS), EU - Nexreg Annex II 2021

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