# **BALL**

#### Safety data sheet According to UK REACH (S.I. 2019/758)

#### **STOPGAP F77 HARDENER**



#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier:** STOPGAP F77 HARDENER

Other means of identification:

Not relevant

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

Relevant uses: Floor coating.. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

F. Ball and Co. Ltd. Churnetside Business Park, Station Road ST13 7RS Cheddleton - Leek - England Phone: +44(0) 1538 361633 msds@f-ball.co.uk www.f-ball.com

1.4 Emergency telephone number: 111

#### **SECTION 2: HAZARDS IDENTIFICATION**

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

## GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567).

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411

Skin Corr. 1B: Skin corrosion, Category 1B, H314

Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

#### 2.2 Label elements:

### GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

#### Danger







#### **Hazard statements:**

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

#### **Precautionary statements:**

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention.

#### **Supplementary information:**

EUH071: Corrosive to the respiratory tract.

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine, m-phenylenebis(methylamine), N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine.

#### 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of organic substances

**Components:** 

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

|      | Identification | Chemical name/Classification   | Concentration |
|------|----------------|--|---------------|
| CAS: | 100-51-6       | benzyl alcohol Acute Tox. 4: H302+H332 - Warning   | 10 - <30 %    |
| CAS: | 68082-29-1     | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine  Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger                                | 10 - <30 %    |
| CAS: | 90-72-2        | 2,4,6-tris(dimethylaminomethyl)phenol  Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning   | 10 - <30 %    |
| CAS: | 186321-96-0    | Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine  Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 -  Danger | 10 - <30 %    |
| CAS: | 1477-55-0      | m-phenylenebis(methylamine)  Acute Tox. 4: H302+H332; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1B: H317; EUH071 - Danger   | 2.5 - <10 %   |
| CAS: | 2855-13-2      | 3-aminomethyl-3,5,5-trimethylcyclohexylamine  Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1A: H317 - Danger  | 2.5 - <10 %   |
| CAS: | 10563-29-8     | N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine  Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1A: H314; Skin Sens. 1B: H317 - Danger  | 2.5 - <10 %   |
| CAS: | 69-72-7        | Salicylic acid  Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 2: H361d - Danger  | <1 %          |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification                                     | А               | Acute toxicity |     |
|--|-----------------|----------------|-----|
| benzyl alcohol                                     | LD50 oral       | 500 mg/kg      | Rat |
| CAS: 100-51-6                                      | LD50 dermal     | Not relevant   |     |
|  | LC50 inhalation | 11 mg/L (ATEi) |     |
| m-phenylenebis(methylamine)                        | LD50 oral       | 1090 mg/kg     | Rat |
| CAS: 1477-55-0                                     | LD50 dermal     | Not relevant   |     |
|  | LC50 inhalation | 11 mg/L (ATEi) |     |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine       | LD50 oral       | 1030 mg/kg     | Rat |
| AS: 2855-13-2                                      | LD50 dermal     | Not relevant   |     |
|  | LC50 inhalation | Not relevant   |     |
| 2,4,6-tris(dimethylaminomethyl)phenol              | LD50 oral       | 1200 mg/kg     | Rat |
| CAS: 90-72-2                                       | LD50 dermal     | Not relevant   |     |
|  | LC50 inhalation | Not relevant   |     |
| N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | LD50 oral       | 1668 mg/kg     | Rat |
| CAS: 10563-29-8                                    | LD50 dermal     | Not relevant   |     |
|  | LC50 inhalation | Not relevant   |     |
| Salicylic acid                                     | LD50 oral       | 891 mg/kg      | Rat |
| CAS: 69-72-7                                       | LD50 dermal     | Not relevant   |     |
|  | LC50 inhalation | Not relevant   |     |

# **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures:

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# SECTION 4: FIRST AID MEASURES (continued)

Request medical assistance immediately, showing the SDS of this product.

#### By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media:

#### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

#### Unsuitable extinguishing media:

Non-applicable

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

## 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).

# **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures:

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

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## SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

It is recommended

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

# 7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 °C Maximum Temp.: 30 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

#### **DNEL (Workers):**

|   |            | Short exposure        |              | Long exposure         |              |
|---|------------|-----------------------|--------------|-----------------------|--------------|
| Identification  |            | Systemic              | Local        | Systemic              | Local        |
| benzyl alcohol  | Oral       | Not relevant          | Not relevant | Not relevant          | Not relevant |
| CAS: 100-51-6   | Dermal     | 40 mg/kg              | Not relevant | 8 mg/kg               | Not relevant |
| EC: 202-859-9   | Inhalation | 110 mg/m <sup>3</sup> | Not relevant | 22 mg/m <sup>3</sup>  | Not relevant |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Oral       | Not relevant          | Not relevant | Not relevant          | Not relevant |
| CAS: 68082-29-1   | Dermal     | Not relevant          | Not relevant | 1.1 mg/kg             | Not relevant |
| EC: 500-191-5   | Inhalation | Not relevant          | Not relevant | 3.9 mg/m <sup>3</sup> | Not relevant |

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

|   |            | Short                 | exposure              | Long                   | exposure                |
|---|------------|-----------------------|-----------------------|------------------------|-------------------------|
| Identification  |            | Systemic              | Local                 | Systemic               | Local                   |
| 2,4,6-tris(dimethylaminomethyl)phenol   | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant            |
| CAS: 90-72-2  | Dermal     | Not relevant          | Not relevant          | 0.15 mg/kg             | Not relevant            |
| EC: 202-013-9   | Inhalation | Not relevant          | Not relevant          | 0.53 mg/m <sup>3</sup> | Not relevant            |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant            |
| CAS: 186321-96-0  | Dermal     | Not relevant          | Not relevant          | 1 mg/kg                | Not relevant            |
| EC: 606-078-8   | Inhalation | Not relevant          | Not relevant          | 7.05 mg/m <sup>3</sup> | Not relevant            |
| m-phenylenebis(methylamine)   | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant            |
| CAS: 1477-55-0  | Dermal     | Not relevant          | Not relevant          | 0.33 mg/kg             | Not relevant            |
| EC: 216-032-5   | Inhalation | Not relevant          | Not relevant          | 1.2 mg/m <sup>3</sup>  | 0.2 mg/m <sup>3</sup>   |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine  | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant            |
| CAS: 2855-13-2  | Dermal     | Not relevant          | Not relevant          | Not relevant           | Not relevant            |
| EC: 220-666-8   | Inhalation | Not relevant          | Not relevant          | Not relevant           | 0.073 mg/m <sup>3</sup> |
| N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine  | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant            |
| CAS: 10563-29-8   | Dermal     | Not relevant          | Not relevant          | 0.67 mg/kg             | Not relevant            |
| EC: 234-148-4   | Inhalation | 7.5 mg/m <sup>3</sup> | 7.5 mg/m <sup>3</sup> | 3.7 mg/m <sup>3</sup>  | 3.7 mg/m <sup>3</sup>   |
| Salicylic acid  | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant            |
| CAS: 69-72-7  | Dermal     | Not relevant          | Not relevant          | 2.3 mg/kg              | Not relevant            |
| EC: 200-712-3   | Inhalation | Not relevant          | Not relevant          | 5 mg/m <sup>3</sup>    | 5 mg/m <sup>3</sup>     |

# **DNEL (General population):**

|   |            | Short                | exposure     | Long                   | exposure               |
|---|------------|----------------------|--------------|------------------------|------------------------|
| Identification  |            | Systemic             | Local        | Systemic               | Local                  |
| benzyl alcohol  | Oral       | 20 mg/kg             | Not relevant | 4 mg/kg                | Not relevant           |
| CAS: 100-51-6   | Dermal     | 20 mg/kg             | Not relevant | 4 mg/kg                | Not relevant           |
| EC: 202-859-9   | Inhalation | 27 mg/m <sup>3</sup> | Not relevant | 5.4 mg/m <sup>3</sup>  | Not relevant           |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine         | Oral       | Not relevant         | Not relevant | 0.56 mg/kg             | Not relevant           |
| CAS: 68082-29-1   | Dermal     | Not relevant         | Not relevant | 0.56 mg/kg             | Not relevant           |
| EC: 500-191-5   | Inhalation | Not relevant         | Not relevant | 0.97 mg/m <sup>3</sup> | Not relevant           |
| 2,4,6-tris(dimethylaminomethyl)phenol   | Oral       | Not relevant         | Not relevant | 0.075 mg/kg            | Not relevant           |
| CAS: 90-72-2  | Dermal     | Not relevant         | Not relevant | 0.075 mg/kg            | Not relevant           |
| EC: 202-013-9   | Inhalation | Not relevant         | Not relevant | 0.13 mg/m <sup>3</sup> | Not relevant           |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | Oral       | Not relevant         | Not relevant | 0.5 mg/kg              | Not relevant           |
| CAS: 186321-96-0  | Dermal     | Not relevant         | Not relevant | 0.5 mg/kg              | Not relevant           |
| EC: 606-078-8   | Inhalation | Not relevant         | Not relevant | 1.74 mg/m <sup>3</sup> | Not relevant           |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine  | Oral       | Not relevant         | Not relevant | 0.526 mg/kg            | Not relevant           |
| CAS: 2855-13-2  | Dermal     | Not relevant         | Not relevant | Not relevant           | Not relevant           |
| EC: 220-666-8   | Inhalation | Not relevant         | Not relevant | Not relevant           | Not relevant           |
| N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine  | Oral       | Not relevant         | Not relevant | 0.2 mg/kg              | Not relevant           |
| CAS: 10563-29-8   | Dermal     | Not relevant         | Not relevant | Not relevant           | Not relevant           |
| EC: 234-148-4   | Inhalation | Not relevant         | Not relevant | 0.65 mg/m <sup>3</sup> | 0.65 mg/m <sup>3</sup> |
| Salicylic acid  | Oral       | 4 mg/kg              | Not relevant | 1 mg/kg                | Not relevant           |
| CAS: 69-72-7  | Dermal     | Not relevant         | Not relevant | 1 mg/kg                | Not relevant           |
| EC: 200-712-3   | Inhalation | Not relevant         | Not relevant | 4 mg/m <sup>3</sup>    | Not relevant           |

# PNEC:

| Identification |              |              |                         |             |
|----------------|--------------|--------------|-------------------------|-------------|
| benzyl alcohol | STP          | 39 mg/L      | Fresh water             | 1 mg/L      |
| CAS: 100-51-6  | Soil         | 0.456 mg/kg  | Marine water            | 0.1 mg/L    |
| EC: 202-859-9  | Intermittent | 2.3 mg/L     | Sediment (Fresh water)  | 5.27 mg/kg  |
|                | Oral         | Not relevant | Sediment (Marine water) | 0.527 mg/kg |

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification  |              |               |                         |               |
|---|--------------|---------------|-------------------------|---------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine         | STP          | 3.84 mg/L     | Fresh water             | 0.004 mg/L    |
| CAS: 68082-29-1   | Soil         | 86.78 mg/kg   | Marine water            | 0 mg/L        |
| EC: 500-191-5   | Intermittent | 0.043 mg/L    | Sediment (Fresh water)  | 434.02 mg/kg  |
|   | Oral         | Not relevant  | Sediment (Marine water) | 43.4 mg/kg    |
| 2,4,6-tris(dimethylaminomethyl)phenol   | STP          | 0.2 mg/L      | Fresh water             | 0.046 mg/L    |
| CAS: 90-72-2  | Soil         | 0.025 mg/kg   | Marine water            | 0.005 mg/L    |
| EC: 202-013-9   | Intermittent | 0.46 mg/L     | Sediment (Fresh water)  | 0.262 mg/kg   |
|   | Oral         | Not relevant  | Sediment (Marine water) | 0.026 mg/kg   |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | STP          | 1.58 mg/L     | Fresh water             | 0.000186 mg/L |
| CAS: 186321-96-0  | Soil         | 11.1 mg/kg    | Marine water            | 0.000019 mg/L |
| EC: 606-078-8   | Intermittent | 0.00186 mg/L  | Sediment (Fresh water)  | 0.005 mg/kg   |
|   | Oral         | Not relevant  | Sediment (Marine water) | 0.0005 mg/kg  |
| m-phenylenebis(methylamine)   | STP          | 10 mg/L       | Fresh water             | 0.094 mg/L    |
| CAS: 1477-55-0  | Soil         | 2.44 mg/kg    | Marine water            | 0.009 mg/L    |
| EC: 216-032-5   | Intermittent | 0.152 mg/L    | Sediment (Fresh water)  | 12.4 mg/kg    |
|   | Oral         | Not relevant  | Sediment (Marine water) | 1.24 mg/kg    |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine  | STP          | 3.18 mg/L     | Fresh water             | 0.06 mg/L     |
| CAS: 2855-13-2  | Soil         | 1.121 mg/kg   | Marine water            | 0.006 mg/L    |
| EC: 220-666-8   | Intermittent | 0.23 mg/L     | Sediment (Fresh water)  | 5.784 mg/kg   |
|   | Oral         | Not relevant  | Sediment (Marine water) | 0.578 mg/kg   |
| N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine  | STP          | 18.1 mg/L     | Fresh water             | 0.0092 mg/L   |
| CAS: 10563-29-8   | Soil         | 0.00132 mg/kg | Marine water            | 0.00092 mg/L  |
| EC: 234-148-4   | Intermittent | 0.092 mg/L    | Sediment (Fresh water)  | 0.034 mg/kg   |
|   | Oral         | Not relevant  | Sediment (Marine water) | 0.00336 mg/kg |
| Salicylic acid  | STP          | 162 mg/L      | Fresh water             | 0.2 mg/L      |
| CAS: 69-72-7  | Soil         | 0.166 mg/kg   | Marine water            | 0.02 mg/L     |
| EC: 200-712-3   | Intermittent | 1 mg/L        | Sediment (Fresh water)  | 1.42 mg/kg    |
|   | Oral         | Not relevant  | Sediment (Marine water) | 0.142 mg/kg   |

# 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

#### B.- Respiratory protection

| Pictogram                                    | PPE                               | Remarks  |
|--|-----------------------------------|--|
| Mandatory<br>respiratory tract<br>protection | Filter mask for gases and vapours | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

# C.- Specific protection for the hands

| Pictogram                 | PPE   | Remarks  |
|---------------------------|---|--|
| Mandatory hand protection | Chemical protective gloves (Material: Butyl,<br>Breakthrough time: > 480 min) | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Pictogram                 | PPE         | Remarks  |
|---------------------------|-------------|--|
| Mandatory face protection | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions.  Use if there is a risk of splashing. |

#### E.- Body protection

| Pictogram                          | PPE   | Remarks   |
|------------------------------------|---|---|
| Mandatory complete body protection | Disposable clothing for protection against chemical risks | For professional use only. Clean periodically according to the manufacturer's instructions. |
| Mandatory foot protection          | Safety footwear for protection against chemical risk      | Replace boots at any sign of deterioration.   |

#### F.- Additional emergency measures

| Emergency measure | Standards                                       | Emergency measure | Standards                                      |
|-------------------|---|-------------------|--|
| 1                 | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <b>*</b>          | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |
| Emergency shower  |   | Eyewash stations  |  |

#### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

#### The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply): 31.47 % weight

V.O.C. density at 20 °C: 312.73 kg/m³ (312.73 g/L)

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

#### **Appearance:**

Physical state at 20 °C:

Appearance:

Colour:

Not available

Odour:

Not available

Not available

Not available

Not relevant \*

**Volatility:** 

Boiling point at atmospheric pressure: 220 °C Vapour pressure at 20 °C: 5 Pa

Vapour pressure at 50 °C: 64.75 Pa (0.06 kPa)
Evaporation rate at 20 °C: Not relevant \*

**Product description:** 

Density at 20 °C: 993.9 kg/m³
Relative density at 20 °C: 0.994
Dynamic viscosity at 20 °C: 380.16 cP

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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# **BALL**

#### Safety data sheet According to UK REACH (S.I. 2019/758)

#### **STOPGAP F77 HARDENER**



# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Kinematic viscosity at 20 °C: 382.51 mm<sup>2</sup>/s Kinematic viscosity at 40 °C: Not relevant \* Concentration: Not relevant \* pH: Not relevant \* Vapour density at 20 °C: Not relevant \* Partition coefficient n-octanol/water 20 °C: Not relevant \* Solubility in water at 20 °C: Not relevant \* Solubility properties: Not relevant \* Not relevant \* Decomposition temperature: Not relevant \* Melting point/freezing point:

Flammability:

Flash Point: Non Flammable (>60 °C)

Flammability (solid, gas):

Autoignition temperature:

Lower flammability limit:

Not relevant \*

Not relevant \*

Upper flammability limit:

Median equivalent diameter: Non-applicable

#### 9.2 Other information:

**Particle characteristics:** 

#### Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Not relevant \*

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Not relevant \*

components:

Other safety characteristics:

Surface tension at 20 °C:

Refraction index:

Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

#### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

Not relevant \*

#### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity       |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Not applicable |

# 10.5 Incompatible materials:

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Precaution          | Not applicable        | Avoid alkalis or strong bases |

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#### SECTION 10: STABILITY AND REACTIVITY (continued)

#### 10.6 Hazardous decomposition products:

Contains substances which require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
  - Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.
- B- Inhalation (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Corrosive to the respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

    IARC: Not relevant
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

# Other information:

Not relevant

#### Specific toxicology information on the substances:



# **STOPGAP F77 HARDENER**



# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

| Identification  | Д               | cute toxicity     | Genus |
|---|-----------------|-------------------|-------|
| benzyl alcohol  | LD50 oral       | 500 mg/kg (ATEi)  | Rat   |
| CAS: 100-51-6   | LD50 dermal     | 2500 mg/kg        |       |
|   | LC50 inhalation | 11 mg/L (ATEi)    |       |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine         | LD50 oral       | >5000 mg/kg       |       |
| CAS: 68082-29-1   | LD50 dermal     | >5000 mg/kg       |       |
|   | LC50 inhalation | >20 mg/L          |       |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | LD50 oral       | >5000 mg/kg       |       |
| CAS: 186321-96-0  | LD50 dermal     | >5000 mg/kg       |       |
|   | LC50 inhalation | >20 mg/L          |       |
| m-phenylenebis(methylamine)   | LD50 oral       | 1090 mg/kg (ATEi) | Rat   |
| CAS: 1477-55-0  | LD50 dermal     | >5000 mg/kg       |       |
|   | LC50 inhalation | 11 mg/L (ATEi)    |       |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine  | LD50 oral       | 1030 mg/kg (ATEi) | Rat   |
| CAS: 2855-13-2  | LD50 dermal     | >5000 mg/kg       |       |
|   | LC50 inhalation | >20 mg/L          |       |
| 2,4,6-tris(dimethylaminomethyl)phenol   | LD50 oral       | 1200 mg/kg (ATEi) | Rat   |
| CAS: 90-72-2  | LD50 dermal     | >5000 mg/kg       |       |
|   | LC50 inhalation | >20 mg/L          |       |
| N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine  | LD50 oral       | 1668 mg/kg (ATEi) | Rat   |
| CAS: 10563-29-8   | LD50 dermal     | >5000 mg/kg       |       |
|   | LC50 inhalation | >20 mg/L          |       |
| Salicylic acid  | LD50 oral       | 891 mg/kg         | Rat   |
| CAS: 69-72-7  | LD50 dermal     | >5000 mg/kg       |       |
|   | LC50 inhalation | >5 mg/L           |       |

# **SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available Toxic to aquatic life with long lasting effects.

# 12.1 Toxicity:

# **Acute toxicity:**

| Identification   |      | Concentration    | Species                         | Genus      |
|--|------|------------------|---------------------------------|------------|
| benzyl alcohol   | LC50 | 646 mg/L (48 h)  | Leuciscus idus                  | Fish       |
| CAS: 100-51-6  |      | 400 mg/L (24 h)  | Daphnia magna                   | Crustacean |
|  |      | 79 mg/L (3 h)    | Scenedesmus subspicatus         | Algae      |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine                          | LC50 | 7 mg/L (96 h)    | Danio rerio                     | Fish       |
| CAS: 68082-29-1  | EC50 | 7 mg/L (48 h)    | Daphnia magna                   | Crustacean |
|  | EC50 | 4 mg/L (72 h)    | Pseudokirchneriella subcapitata | Algae      |
| 2,4,6-tris(dimethylaminomethyl)phenol  | LC50 | 345 mg/L (96 h)  | QSAR                            | Fish       |
| CAS: 90-72-2   | EC50 | Not relevant     |                                 |            |
|  | EC50 | Not relevant     |                                 |            |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine CAS: 186321-96-0 |      | 1.8 mg/L (96 h)  | Oncorhynchus mykiss             | Fish       |
|  |      | 0.7 mg/L (48 h)  | Daphnia magna                   | Crustacean |
|  | EC50 | 0.77 mg/L (72 h) | Pseudokirchneriella subcapitata | Algae      |
| m-phenylenebis(methylamine)  | LC50 | 88 mg/L (96 h)   | Oryzias latipes                 | Fish       |
| CAS: 1477-55-0   | EC50 | 15 mg/L (48 h)   | Daphnia magna                   | Crustacean |
|  | EC50 | 20 mg/L (72 h)   | Selenastrum capricornutum       | Algae      |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine   | LC50 | 110 mg/L (96 h)  | Leuciscus idus                  | Fish       |
| CAS: 2855-13-2   | EC50 | 388 mg/L (48 h)  | N/A                             | Crustacean |
|  | EC50 | Not relevant     |                                 |            |

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# SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification                                     |      | Concentration   | Species       | Genus      |
|--|------|-----------------|---------------|------------|
| N´-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine | LC50 | Not relevant    |               |            |
| CAS: 10563-29-8                                    | EC50 | 9.2 mg/L (48 h) | Daphnia magna | Crustacean |
|  | EC50 | Not relevant    |               |            |

# **Chronic toxicity:**

| Identification                               | Concentration |              | Species       | Genus      |
|--|---------------|--------------|---------------|------------|
| benzyl alcohol                               | NOEC          | 48.897 mg/L  | N/A           | Fish       |
| CAS: 100-51-6                                | NOEC          | 51 mg/L      | Daphnia magna | Crustacean |
| m-phenylenebis(methylamine)                  | NOEC          | Not relevant |               |            |
| CAS: 1477-55-0                               | NOEC          | 4.7 mg/L     | Daphnia magna | Crustacean |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | NOEC          | Not relevant |               |            |
| CAS: 2855-13-2                               | NOEC          | 3 mg/L       | Daphnia magna | Crustacean |

# 12.2 Persistence and degradability:

### **Substance-specific information:**

| Identification  | D€       | egradability | Biodegradability |          |
|---|----------|--------------|------------------|----------|
| benzyl alcohol  | BOD5     | Not relevant | Concentration    | 100 mg/L |
| CAS: 100-51-6   | COD      | Not relevant | Period           | 14 days  |
|   | BOD5/COD | Not relevant | % Biodegradable  | 94 %     |
| Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine | BOD5     | Not relevant | Concentration    | 2 mg/L   |
| CAS: 186321-96-0  | COD      | Not relevant | Period           | 28 days  |
|   | BOD5/COD | Not relevant | % Biodegradable  | 9 %      |
| m-phenylenebis(methylamine)   | BOD5     | Not relevant | Concentration    | 14 mg/L  |
| CAS: 1477-55-0  | COD      | Not relevant | Period           | 28 days  |
|   | BOD5/COD | Not relevant | % Biodegradable  | 49 %     |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine  | BOD5     | Not relevant | Concentration    | 7 mg/L   |
| CAS: 2855-13-2  | COD      | Not relevant | Period           | 28 days  |
|   | BOD5/COD | Not relevant | % Biodegradable  | 8 %      |

# 12.3 Bioaccumulative potential:

### **Substance-specific information:**

| Identification  | В         | ioaccumulation potential |
|---|-----------|--------------------------|
| benzyl alcohol  | BCF       | 0.3                      |
| CAS: 100-51-6   | Pow Log   | 1.1                      |
|   | Potential | Low                      |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine |           | 77                       |
| CAS: 68082-29-1   | Pow Log   |                          |
|   | Potential | Moderate                 |
| 2,4,6-tris(dimethylaminomethyl)phenol   | BCF       | 3                        |
| CAS: 90-72-2  | Pow Log   | 0.77                     |
|   | Potential | Low                      |
| m-phenylenebis(methylamine)   | BCF       | 3                        |
| CAS: 1477-55-0  | Pow Log   | 0.18                     |
|   | Potential | Low                      |

# 12.4 Mobility in soil:

| Identification                        | Absorp          | Absorption/desorption |            | atility             |
|---------------------------------------|-----------------|-----------------------|------------|---------------------|
| benzyl alcohol                        | Koc             | Not relevant          | Henry      | Not relevant        |
| CAS: 100-51-6                         | Conclusion      | Not relevant          | Dry soil   | Not relevant        |
|                                       | Surface tension | 3.679E-2 N/m (25 °C)  | Moist soil | Not relevant        |
| 2,4,6-tris(dimethylaminomethyl)phenol | Koc             | 15130                 | Henry      | 9.312E-12 Pa·m³/mol |
| CAS: 90-72-2                          | Conclusion      | Immobile              | Dry soil   | No                  |
|                                       | Surface tension | Not relevant          | Moist soil | No                  |



#### **STOPGAP F77 HARDENER**



# SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification                               | Absorp          | Absorption/desorption    |            | ility             |
|--|-----------------|--------------------------|------------|-------------------|
| m-phenylenebis(methylamine)                  | Koc             | 1300                     | Henry      | Not relevant      |
| CAS: 1477-55-0                               | Conclusion      | Low                      | Dry soil   | Not relevant      |
|  | Surface tension | Not relevant             | Moist soil | Not relevant      |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | Koc             | 928                      | Henry      | 4.46E-4 Pa·m³/mol |
| CAS: 2855-13-2                               | Conclusion      | Low                      | Dry soil   | No                |
|  | Surface tension | Not relevant             | Moist soil | No                |
| Salicylic acid                               | Koc             | Not relevant             | Henry      | Not relevant      |
| CAS: 69-72-7                                 | Conclusion      | Not relevant             | Dry soil   | Not relevant      |
|  | Surface tension | 2.444E-2 N/m (207.25 °C) | Moist soil | Not relevant      |

#### 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

#### 12.6 Other adverse effects:

Not described

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods:

| Code      | Description                                    | Waste class |
|-----------|--|-------------|
| 16 03 05* | organic wastes containing hazardous substances | Hazardous   |

#### Type of waste:

HP14 Ecotoxic, HP6 Acute Toxicity, HP13 Sensitising, HP8 Corrosive

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

# Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

#### **SECTION 14: TRANSPORT INFORMATION**

#### Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



**14.1 UN number:** UN2735

**14.2 UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris

(dimethylaminomethyl)phenol; Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine)

**14.3** Transport hazard class(es): 8

Labels: 8

14.4 Packing group: II

14.5 Environmental hazards: Yes

**14.6 Special precautions for user**Tunnel restriction code: E

Physico-Chemical properties: see section 9

Limited quantities: 1 L

**14.7** Transport in bulk according N

to Annex II of Marpol and the IBC Code:

Not relevant

Transport of dangerous goods by sea:

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#### **STOPGAP F77 HARDENER**



#### SECTION 14: TRANSPORT INFORMATION (continued)

With regard to IMDG 41-22:

UN2735 14.1 UN number:

14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris

(dimethylaminomethyl)phenol; Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine)

14.3 Transport hazard class(es):

Lahels: 14.4 Packing group: ΤŢ 14.5 Marine pollutant:

14.6 Special precautions for user

274 Special regulations: EmS Codes: F-A, S-B Physico-Chemical properties: see section 9

Limited quantities: 1 L Segregation group: SGG18

14.7 Transport in bulk according to Annex II of Marpol and

Not relevant

the IBC Code: Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



UN2735 14.1 UN number:

14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-tris

> (dimethylaminomethyl)phenol; Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine)

14.3 Transport hazard class(es):

Labels: 8 14.4 Packing group: II 14.5 Environmental hazards: Yes

14.6 Special precautions for user

Physico-Chemical properties: see section 9 14.7 Transport in bulk according Not relevant

to Annex II of Marpol and

the IBC Code:

# **SECTION 15: REGULATORY INFORMATION**

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

### The Control of Major Accident Hazards Regulations 2015:

| Section | Description           | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|-------------------------|-------------------------|
| E2      | ENVIRONMENTAL HAZARDS | 200                     | 500                     |

### Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):

Shall not be used in:

- -ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

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#### SECTION 15: REGULATORY INFORMATION (continued)

#### Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

#### **SECTION 16: OTHER INFORMATION**

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

#### Texts of the legislative phrases mentioned in section 2:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H411: Toxic to aquatic life with long lasting effects.

H317: May cause an allergic skin reaction.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage. Eye Irrit. 2: H319 - Causes serious eye irritation.

Repr. 2: H361d - Suspected of damaging the unborn child.

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

#### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

#### **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50

LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

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.