

Product Brick and Patio Buster  
 Revision date 17 August 2018  
 Revision 1



## Safety Data Sheet (SDS)

### Section 1: Identification of the substance/preparation and of the company/undertaking

#### 1.1 Product identifier

**Product name** Brick and Patio Buster  
**Synonyms, Trade names** No information available.

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

**Identified uses** Cleaning agent.  
**Uses advised against** Any other purpose.

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

**Supplier** Wes-Chem Products International Ltd.  
 Drumduffy  
 Drumkeeran  
 Co. Leitrim  
 N41 T998  
 Ireland  
 Tel: 071 96 22555  
**Contact person** info@weschem.ie

#### 1.4 Emergency telephone number

**Emergency telephone** Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9. Tel 01 8092566  
**National emergency telephone number** Call 999 or 112.

### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (EC 1272/2008)**  
 Physical and chemical hazards Me. Corr 1 - H290  
 Human health Skin Corr. 1B - H314, Eye Dam. 1 - H318, STOT SE 3 - H335  
 Environment Aquatic Acute 1 - H400

#### 2.2 Label elements

**Contains** SODIUM HYPOCHLORITE 5 - 16%  
**Detergent labeling** ≥5% <15% chlorine-based bleaching agents

**Label in accordance with (EC) no. 1272/2008**



**Signal word** Danger

**Hazard statements**  
 H290 May be corrosive to metals.  
 H314 Causes severe skin burns and eye damage.  
 H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.

**Precautionary statements** Prevention

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

**Response**

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.

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

**Storage**

P405 Store locked up.

**EUH statements**

EUH031 Contact with acids liberates toxic gas.

**2.3 Other hazards**

None known.

**Section 3: Composition/identification of ingredients**

**3.1 Substance**

Not applicable.

**3.2 Mixtures**

| Name                        | Product identifier   | Reg. EU 1272/2008  | %      |
|-----------------------------|--|--|--------|
| SODIUM HYPOCHLORITE 5 - 16% | CAS-No.: 7681-52-9<br>EC No.: 231-668-3<br>REACH Reg No.:<br>01-2119488154-34-0047 | Skin Corr. 1B - H314, Eye Dam. 1 - H318, STOT SE 3 - H335, Me. Corr 1 - H290, Aquatic Acute 1 - H400 | 5-<16% |

The full text for all hazard statements are displayed in section 16.

**Composition comments**

The data shown are in accordance with the latest EC Directives.

**Section 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue. Provide general first aid, rest, warmth and fresh air.

**Inhalation**

Move the exposed person to fresh air at once. If breathing is difficult, oxygen should be administered by qualified personnel. If not breathing, give artificial respiration. Get prompt medical attention.

**Ingestion**

Get medical attention immediately. Do not induce vomiting. Provided the patient is fully conscious, washout mouth with water. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

**Skin contact**

SPEED IS ESSENTIAL. Take off contaminated clothing and shoes immediately. Promptly flush contaminated skin with water. Continue to rinse for at least 15 minutes. Seek medical attention immediately.

**Eye contact**

SPEED IS ESSENTIAL. Avoid contaminating unaffected eye. Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do so. Get medical attention immediately. In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).

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

**General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Irritating to respiratory system. Symptoms: Breathing difficulties, cough, chemical pneumonitis, pulmonary oedema - Repeated or prolonged exposure: Nose bleeds, chronic bronchitis.

**Ingestion**

Severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Risk of shock and respiratory disorder. Symptoms: Nausea, abdominal

|                     |  |
|---------------------|--|
| <b>Skin contact</b> | pain, bloody vomiting, diarrhoea, suffocation, cough, and severe shortness of breath. Risk of chemical pneumonitis from product inhalation.  |
| <b>Eye contact</b>  | Corrosive! Can cause redness, pain, and severe skin burns. Symptoms: Redness, swelling of tissue, burns, ulceration.   |
|                     | Corrosive! Vapours are irritating and may cause damage to the eyes. May cause irreversible eye damage. May cause blindness. Symptoms: Redness, lachrymation, swelling of tissue, burn. |

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

|                               |                        |
|-------------------------------|------------------------|
| <b>Notes to the physician</b> | Treat symptomatically. |
|-------------------------------|------------------------|

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### **Section 5: Fire-fighting measures**

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#### **5.1 Extinguishing media**

|                                       |   |
|---------------------------------------|---|
| <b>Extinguishing media</b>            | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| <b>Unsuitable extinguishing media</b> | No unsuitable extinguishing media identified.   |

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

|   |  |
|---|--|
| <b>Hazardous combustion products</b>        | Hazardous decomposition products formed under fire conditions. In case of fire the product releases hydrogen chloride.                   |
| <b>Unusual fire &amp; explosion hazards</b> | Irritating or corrosive vapors may be emitted during a fire. Do NOT breathe fumes. Contain run-off. The product is oxidizing when dried. |
| <b>Specific hazards</b>                     | Promotes combustion of combustible products or materials.  |

#### **5.3 Advice for firefighters**

|  |   |
|--|---|
| <b>Special fire fighting procedures</b>      | If possible, fight fire from protected position. Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Containers close to fire should be removed immediately or cooled with water. Suppress (knock down) gasses/vapours/mists with a water spray.   |
| <b>Protective equipment for firefighters</b> | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

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### **Section 6: Accidental release measures**

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

|                                 |  |
|---------------------------------|--|
| <b>Personal precautions</b>     | Do not mix with other chemicals. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition. |
| <b>For emergency responders</b> | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Follow safe handling advice and personal protective equipment recommendations for normal use of product. Do not touch spilled material.                     |

#### **6.2 Environmental precautions**

|                                  |  |
|----------------------------------|--|
| <b>Environmental precautions</b> | Avoid discharge into drains, water courses or onto the ground. |
|----------------------------------|--|

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

|                               |  |
|-------------------------------|--|
| <b>Spill clean up methods</b> | Ventilate and evacuate the area. Eliminate all ignition sources. Wear necessary protective equipment DO NOT touch spilled material! Stop leak if possible without risk. Use non-metallic tools/containers for clean up.<br>Absorb spillage with inert, damp, non-combustible material or use a liquid binding material. Place waste material into suitable labelled sealed containers for disposal. Remove waste promptly to a safe area. Flush with plenty of water to clean spillage area. |
|-------------------------------|--|

#### **6.4 Reference to other sections**

|                                    |  |
|------------------------------------|--|
| <b>Reference to other sections</b> | See section 1 for emergency contact. For personal protection, see section 8. For waste |
|------------------------------------|--|

disposal, see section 13.

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## Section 7: Handling and storage

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### 7.1 Precautions for safe handling

#### Handling

Use personal protective equipment, see Section 8. Avoid contact with skin and eyes. Do not handle broken packages without protective equipment. Ensure adequate ventilation. Do not use contact lenses. Keep away from flammable materials and incompatible substances. Use only equipment and materials which are compatible with the product. Do not confine the product in a circuit, between closed valves, or in a container without a vent. Always wash hands after handling.

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

#### Storage precautions

Store in tightly closed original container in a dry, cool and well-ventilated place. Do not confine product in unvented vessels or between closed valves. Keep in a bunded area. Keep away from direct sunlight. Keep away from incompatible materials (see section 10).

#### Storage class

Corrosive storage

### 7.3 Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### Usage description

Use only according to directions.

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## Section 8: Exposure controls/Personal protection

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### 8.1 Control parameters

#### Ingredient comments

No exposure limits noted for ingredient(s).

### 8.2 Exposure Controls

#### Protective equipment



#### Engineering measures Respiratory equipment

Provide adequate ventilation, including appropriate local extraction. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). If the respirator is the sole means of protection, use a full-face supplied air respirator. Self-contained breathing apparatus (EN 133). Respirator with a vapour filter (EN 141). In case of decomposition (see section 10), face mask with combined type B-P2 cartridge.

#### Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Gloves must be inspected prior to use. Suggested material: Nitrile. Minimum layer thickness:  $\geq 0.35$  mm. Break through time: 480 min. Suggested material: PVC. Minimum layer thickness: 0.5 mm. Break through time: 480 min. Suggested material: Butyl rubber. Minimum layer thickness: 0.5 mm. Break through time: 480 min. Gloves must be inspected prior to use. Consult manufacturer for specific advice on material. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

#### Eye protection

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

#### Other protection

Wear appropriate clothing to prevent any possibility of skin contact. The selected clothing must satisfy the European norm standard EN 943. Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

|                           |   |
|---------------------------|---|
| <b>Hygiene measures</b>   | DO NOT SMOKE IN WORK AREA! Wash hands after handling. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. |
| <b>Process conditions</b> | Keep container tightly sealed when not in use. Ensure that eye flushing systems and safety showers are located close by in the work place.  |

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**Section 9: Physical and chemical properties**


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**9.1 Information on basic physical and chemical properties**

|  |   |
|--|---|
| <b>Appearance</b>                              | Liquid.   |
| <b>Colour</b>                                  | Yellow-green.   |
| <b>Odour</b>                                   | Chlorine Pungent.   |
| <b>Odour threshold - lower</b>                 | No information available.                                       |
| <b>Odour threshold - upper</b>                 | No information available.                                       |
| <b>pH-Value, Conc. Solution</b>                | >11 (15% solution).   |
| <b>pH-Value, Diluted solution</b>              | No information available.                                       |
| <b>Melting point</b>                           | No information available.                                       |
| <b>Initial boiling point and boiling range</b> | No information available.                                       |
| <b>Flash point</b>                             | No information available.                                       |
| <b>Evaporation rate</b>                        | No information available.                                       |
| <b>Flammability state</b>                      | No information available.                                       |
| <b>Flammability limit - lower(%)</b>           | No information available.                                       |
| <b>Flammability limit - upper(%)</b>           | No information available.                                       |
| <b>Vapour pressure</b>                         | No information available.                                       |
| <b>Vapour density (air=1)</b>                  | No information available.                                       |
| <b>Relative density</b>                        | 1.25 at 20 °C (Chlorine;15%);1.3, at 21.2 °C (Chlorine; 24.3%). |
| <b>Bulk density</b>                            | No information available.                                       |
| <b>Solubility</b>                              | Soluble in water  |
| <b>Decomposition temperature</b>               | No information available.                                       |
| <b>Partition coefficient; n-Octanol/Water</b>  | No information available.                                       |
| <b>Auto ignition temperature (°C)</b>          | No information available.                                       |
| <b>Viscosity</b>                               | No information available.                                       |
| <b>Explosive properties</b>                    | No information available.                                       |
| <b>Oxidising properties</b>                    | No information available.                                       |

**9.2 Other information**

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Molecular weight</b>          | No information available. |
| <b>Volatile organic compound</b> | No information available. |
| <b>Other information</b>         | None noted.               |

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**Section 10: Stability and reactivity**

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**10.1 Reactivity**

**Reactivity** Corrosive to metals. Contact with acids liberates toxic gas.

**10.2 Chemical stability**

**Stability** Stable under normal temperature conditions and recommended use.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** Metals: Decomposition with formation of oxygen. Acids: Violent decomposition with release of chlorine.

**Hazardous polymerisation** Unknown.

**Polymerisation description** Not applicable.

**10.4 Conditions to Avoid**

**Conditions to avoid** Heat, sparks, open flames, temperature extremes and direct sunlight. To avoid thermal decomposition do not overheat. Avoid freezing.

**10.5 Incompatible materials**

**Materials to avoid** Metals, Salts of metals, Acids, Organic materials. Keep away from Nickel, Copper, Cobalt, Aluminium, Manganese.

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** Chlorine, Sodium chlorate, Hypochlorous acid, predominant at acid pH, is 4 to 5 fold more toxic than hypochlorite ion. The release of other hazardous decomposition products is possible.

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**Section 11: Toxicological information**

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**11.1 Information on toxicological effects**

**Toxicological information** No toxicological information for the overall finished product.

**Acute toxicity (Oral LD50)** LD50, rat, > 1,100 mg/kg (Chlorine).

**Acute toxicity (Dermal LD50)** LD50, rabbit, > 20,000 mg/kg (Chlorine).

**Acute toxicity (Inhalation LD50)** LC50, 1 h, rat, > 10.5 mg/l (Chlorine).

**Serious eye damage/irritation** Causes serious eye damage.

**Skin corrosion/irritation** No information available.

**Respiratory sensitisation** Guinea pig, did not cause sensitization on laboratory animals.

**Skin sensitisation** Guinea pig, did not cause sensitization on laboratory animals.

**Germ cell mutagenicity** In vitro, ambiguous mutagenic effect. In vivo tests did not show mutagenic effects.

**Carcinogenicity** No information available.

**Specific target organ toxicity - Single exposure:**

**STOT - Single exposure** Human experience, Remarks: May cause respiratory irritation.

**Specific target organ toxicity - Repeated exposure:**

**STOT - Repeated exposure** No information available.

**Inhalation** Irritating to respiratory system. Symptoms: Breathing difficulties, cough, chemical pneumonitis, pulmonary oedema - Repeated or prolonged exposure: Nose bleeds, chronic bronchitis.

**Ingestion** Severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Risk of shock and respiratory disorder. Symptoms: Nausea, abdominal pain, bloody vomiting, diarrhoea, suffocation, cough, and severe shortness of breath. Risk of chemical pneumonitis from product inhalation.

**Skin contact** Corrosive! Can cause redness, pain, and severe skin burns. Symptoms: Redness, swelling of tissue, burns, ulceration.

**Eye contact** Corrosive! Vapours are irritating and may cause damage to the eyes. May cause irreversible

|                               |   |
|-------------------------------|---|
| <b>Waste management</b>       | eye damage. May cause blindness. Symptoms: Redness, lachrymation, swelling of tissue, burn.<br>When handling waste, consideration should be made to the safety precautions applying to handling of the product. For wastewater containing product, do not discharge into ground or drain without treatment. |
| <b>Routes of entry</b>        | No information available.   |
| <b>Target organs</b>          | Eyes, skin, digestive system, respiratory system.   |
| <b>Aspiration hazards:</b>    | No information available.   |
| <b>Reproductive toxicity:</b> | Oral, rat, 5 mg/kg, Effects on fertility, NOAEL, (Chlorine). Oral, rat, 5.7 mg/kg, Developmental Toxicity, NOAEL, (Chlorine).   |

| Name                        | LD50 oral         | LD50 dermal           | LD50 inhalation                  |
|-----------------------------|-------------------|-----------------------|----------------------------------|
| SODIUM HYPOCHLORITE 5 - 16% | >1100.00mg/kg Rat | >20000.00mg/kg Rabbit | >10.50mg/l (vapours) Rat 1 Hours |

## Section 12: Ecological information

### 12.1 Toxicity

|   |  |
|---|--|
| <b>Acute toxicity - Fish</b>                    | Fishes, various species, LC50, 96 h, 0.06mg/l, fresh water (active chlorine). Fishes, Menidia peninsulae, NOEC, 96 h, 0.04 mg/l, salt water (Chlorine). Fishes, various species, 96 h, 0.032 mg/l, Marine water (active chlorine). |
| <b>Acute toxicity - Aquatic invertebrates</b>   | Crustaceans, various species, EC50, 48 h, 0.026 mg/l (Chlorine). Crustaceans, Daphnia magna, EC50, 48 h, 0.141 mg/l, fresh water (active chlorine).  |
| <b>Acute toxicity - Aquatic plants</b>          | No information available.  |
| <b>Acute toxicity - Microorganisms</b>          | No information available.  |
| <b>Chronic toxicity - Fish</b>                  | No information available.  |
| <b>Chronic toxicity - Aquatic invertebrates</b> | No information available.  |
| <b>Chronic toxicity - Aquatic plants</b>        | No information available.  |
| <b>Chronic toxicity - Microorganisms</b>        | No information available.  |
| <b>Ecotoxicity</b>                              | The product contains substance which is very toxic to aquatic life.  |
| <b>Eco toxicological information</b>            | The product contains a substance which is harmful to aquatic organisms.  |

### 12.2 Persistence and degradability

|                                 |  |
|---------------------------------|--|
| <b>Degradability</b>            | The methods for determining biodegradability are not applicable to inorganic substances. |
| <b>Biological oxygen demand</b> | No information available.  |
| <b>Chemical oxygen demand</b>   | No information available.  |

### 12.3 Bioaccumulative potential

|   |                           |
|---|---------------------------|
| <b>Bioaccumulative potential</b>              | Does not bioaccumulate.   |
| <b>Bioaccumulation factor</b>                 | No information available. |
| <b>Partition coefficient; n-Octanol/Water</b> | No information available. |

### 12.4 Mobility in soil

|                 |                              |
|-----------------|------------------------------|
| <b>Mobility</b> | Mobile in water environment. |
|-----------------|------------------------------|

### 12.5 Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** The product does not contain any PBT or vPvB Substances.

### 12.6 Other adverse effects

|                              |                           |
|------------------------------|---------------------------|
| <b>Other adverse effects</b> | No information available. |
|------------------------------|---------------------------|

| Name                        | Acute toxicity (Fish)                 | Acute toxicity (Aquatic invertebrates) | Acute toxicity (Aquatic plants) |
|-----------------------------|---------------------------------------|--|---------------------------------|
| SODIUM HYPOCHLORITE 5 - 16% | LC50 96 Hours 0.06ppm Freshwater Fish | EC50 48 Hours 0.14ppm Daphnia magna    |                                 |

**Section 13: Disposal considerations**

**Waste management** When handling waste, consideration should be made to the safety precautions applying to handling of the product. For wastewater containing product, do not discharge into ground or drain without treatment.

**13.1 Waste treatment methods**

**Disposal methods** Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.

**Section 14: Transport information****14.1 UN number**

UN no. (ADR) UN1791  
UN no. (IMDG) UN1791  
UN no. (IATA) UN1791

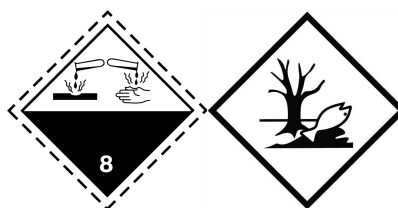
**14.2 UN proper shipping name**

ADR proper shipping name HYPOCHLORITE SOLUTION  
IMDG proper shipping name HYPOCHLORITE SOLUTION  
IATA proper shipping name HYPOCHLORITE SOLUTION

**14.3 Transport hazard class(es)**

ADR class 8  
IMDG class 8  
IATA class 8

Transport labels

**14.4 Packing group**

ADR/RID/ADN packing group II  
IMDG packing group II  
IATA packing group II

**14.5 Environmental hazards**

ADR Yes  
IMDG Yes  
IATA Yes

**14.6 Special precautions for user**

EMS F-A, S-B  
Emergency action code A3 A803  
Hazard no. (ADR) 80  
Tunnel restriction code (E)

**14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code**

Not applicable.

**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

**EU legislation** 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 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th



May 2010 amending regulation (EC) No 1907/2006.

**Approved code of practice** 2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).

**Chemical safety assessment** No chemical safety assessment has been carried out.

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**Section 16: Other information**

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**General information** This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010  
**Revision comments** This is first issue.  
**Revision date** 17 August 2018  
**Revision** 1  
**Safety data sheet status** Approved.

**Hazard statements in full**

**H290** May be corrosive to metals.  
**H314** Causes severe skin burns and eye damage.  
**H318** Causes serious eye damage.  
**H335** May cause respiratory irritation.  
**H400** Very toxic to aquatic life.  
**EUH031** Contact with acids liberates toxic gas.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.