Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758



# SAFETY DATA SHEET

2116 Hard-Hat® Stainless steel

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

1.1 Product identifier

Product name : 2116 Hard-Hat® Stainless steel

Product description : Aerosol. Paint Product type : Aerosol.

**UFI** : DSW0-P0S1-1005-EN9F

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

|                                                    | Identified uses |
|----------------------------------------------------|-----------------|
| Consumer use<br>Industrial use<br>Professional use |                 |

| Uses advised against | Reason |
|----------------------|--------|
| None identified.     | -      |

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

**RUST-OLEUM EUROPE** 

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Fax no.: +44 (0) 191 4920125 enquiries@tor-coatings.com

e-mail address of person responsible for this SDS

: rpmeurohas@rustoleum.eu

# 1.4 Emergency telephone number

## **National advisory body/Poison Centre**

**Supplier** 

Telephone number United Kingdom: : +44 870 8200418 / +44 2038073798

Great Britain

Hours of operation : 24 / 7

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# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

**Product definition**: Mixture

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

Aerosol 1, H222, H229 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms







Signal word : Danger

**Hazard statements** : H222, H229 - Extremely flammable aerosol. Pressurised container: may burst if

heated.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

General: P103 - Read carefully and follow all instructions.

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

**Prevention**: P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P271 - Use only outdoors or in a well-ventilated area.

P260 - Do not breathe vapour or spray. P251 - Do not pierce or burn, even after use.

Response : Not applicable.

Storage : P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50

°C.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

**Hazardous ingredients**: Reaction mass of ethylbenzene and xylene

xylene (mixture of isomeres)

Supplemental label

elements

: EUH208 - Contains Nickel. May produce an allergic reaction.

Supplemental label elements : Detergents - Regulation (EC) No

907/2006

: Not applicable.

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous

use of certain dangerous substances, mixtures and articles

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# **SECTION 2: Hazards identification**

**Special packaging requirements** 

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Yes, applicable.

#### 2.3 Other hazards

# Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: None known.

# SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

**United Kingdom: Great Britain** 

| Product/ingredient name                  | Identifiers                                                                           | %         | Classification                                                                                                                                                                               | Specific Conc.<br>Limits, M-factors<br>and ATEs                             | Туре    |
|------------------------------------------|---------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------|
| dimethyl ether                           | REACH #:<br>01-2119472128-37<br>EC: 204-065-8<br>CAS: 115-10-6                        | ≥50 - ≤75 | Flam. Gas 1A, H220                                                                                                                                                                           | -                                                                           | [2]     |
| Reaction mass of ethylbenzene and xylene | REACH #:<br>01-2119488216-32<br>List #: 905-588-0                                     | ≥10 - ≤25 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304                       | ATE [Dermal] =<br>1100 mg/kg<br>ATE [Inhalation<br>(vapours)] = 11 mg/<br>I | [1] [2] |
| xylene (mixture of isomeres)             | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7                       | ≤10       | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>(oral, inhalation)<br>Asp. Tox. 1, H304 | ATE [Dermal] =<br>1100 mg/kg<br>ATE [Inhalation<br>(vapours)] = 11 mg/<br>I | [1] [2] |
| ethylbenzene                             | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4 | ≤3        | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs)<br>Asp. Tox. 1, H304                                                                                         | ATE [Inhalation<br>(vapours)] = 17 mg/                                      | [1] [2] |
| chromium                                 | EC: 231-157-5<br>CAS: 7440-47-3                                                       | ≤3        | Aquatic Chronic 4,<br>H413                                                                                                                                                                   | -                                                                           | [1]     |
| Nickel                                   | EC: 231-111-4<br>CAS: 7440-02-0<br>Index: 028-002-00-7                                | ≤1        | Skin Sens. 1, H317<br>Carc. 2, H351<br>STOT RE 1, H372<br>Aquatic Chronic 3,<br>H412                                                                                                         | -                                                                           | [1] [2] |

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# SECTION 3: Composition/information on ingredients See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

List numbers have no legal significance.

Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# **Protection of first-aiders**

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

# Over-exposure signs/symptoms

**Eye contact** 

: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation

: Adverse symptoms may include the following:

respiratory tract irritation

coughing

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# **SECTION 4: First aid measures**

Skin contact

: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

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

Hazards from the substance or mixture

Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

Hazardous combustion products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides

# 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: 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.

**Additional information** 

: Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated. Bursting aerosol containers may be propelled from a fire at high speed.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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# SECTION 6: Accidental release measures

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# **6.2 Environmental** precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## 6.3 Methods and material for containment and cleaning up

## **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

# 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**Seveso Directive - Reporting thresholds** 

**Danger criteria** 

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# **SECTION 7: Handling and storage**

|     | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P3a | 150 tonne                       | 500 tonne               |

# 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

# Occupational exposure limits United Kingdom: Great Britain

| Product/ingredient name                  | Exposure limit values                                                        |
|------------------------------------------|------------------------------------------------------------------------------|
| dimethyl ether                           | EH40/2005 WELs (United Kingdom (UK), 1/2020).<br>STEL: 958 mg/m³ 15 minutes. |
|                                          | STEL: 500 ppm 15 minutes.                                                    |
|                                          | TWA: 766 mg/m³ 8 hours.<br>TWA: 400 ppm 8 hours.                             |
| Reaction mass of ethylbenzene and xylene | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,                |
|                                          | p- or mixed isomers] Absorbed through skin.                                  |
|                                          | STEL: 441 mg/m³ 15 minutes.                                                  |
|                                          | STEL: 100 ppm 15 minutes.                                                    |
|                                          | TWA: 220 mg/m³ 8 hours. TWA: 50 ppm 8 hours.                                 |
| xylene (mixture of isomeres)             | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,                |
| Aylerie (mixture of isomeres)            | p- or mixed isomers] Absorbed through skin.                                  |
|                                          | STEL: 441 mg/m³ 15 minutes.                                                  |
|                                          | STEL: 100 ppm 15 minutes.                                                    |
|                                          | TWA: 220 mg/m³ 8 hours.                                                      |
|                                          | TWA: 50 ppm 8 hours.                                                         |
| ethylbenzene                             | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed                       |
|                                          | through skin. STEL: 552 mg/m³ 15 minutes.                                    |
|                                          | STEL: 125 ppm 15 minutes.                                                    |
|                                          | TWA: 441 mg/m³ 8 hours.                                                      |
|                                          | TWA: 100 ppm 8 hours.                                                        |
| Nickel                                   | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed                       |
|                                          | through skin. Inhalation sensitiser.                                         |
|                                          | TWA: 0,5 mg/m³, (as Ni) 8 hours.                                             |

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance

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# **SECTION 8: Exposure controls/personal protection**

documents for methods for the determination of hazardous substances will also be required.

# **DNELs/DMELs**

| Product/ingredient name           | Type  | Exposure         | Value                  | Population            | Effects    |
|-----------------------------------|-------|------------------|------------------------|-----------------------|------------|
| Reaction mass of ethylbenzene and | DNEL  | Short term       | 442 mg/m <sup>3</sup>  | Workers               | Local      |
| xylene                            |       | Inhalation       |                        |                       |            |
|                                   | DNEL  | Short term       | 442 mg/m <sup>3</sup>  | Workers               | Systemic   |
|                                   |       | Inhalation       |                        |                       |            |
|                                   | DNEL  | Long term        | 221 mg/m <sup>3</sup>  | Workers               | Local      |
|                                   |       | Inhalation       |                        |                       |            |
|                                   | DNEL  | Long term        | 221 mg/m <sup>3</sup>  | Workers               | Systemic   |
|                                   | 5.151 | Inhalation       | 0.40 "                 |                       |            |
|                                   | DNEL  | Long term Dermal | 212 mg/kg<br>bw/day    | Workers               | Systemic   |
|                                   | DNEL  | Short term       | 260 mg/m <sup>3</sup>  | General               | Local      |
|                                   |       | Inhalation       |                        | population            |            |
|                                   | DNEL  | Short term       | 260 mg/m <sup>3</sup>  | General               | Systemic   |
|                                   |       | Inhalation       |                        | population            |            |
|                                   | DNEL  | Long term        | 65,3 mg/m <sup>3</sup> | General               | Local      |
|                                   |       | Inhalation       |                        | population            |            |
|                                   | DNEL  | Long term        | 65,3 mg/m <sup>3</sup> | General               | Systemic   |
|                                   | DAIE  | Inhalation       | 405//                  | population            | 0          |
|                                   | DNEL  | Long term Dermal | 125 mg/kg              | General               | Systemic   |
|                                   | DNEL  | Long term Oral   | bw/day                 | population<br>General | Systemia   |
|                                   | DINCL | Long term Oral   | 12,5 mg/<br>kg bw/day  | population            | Systemic   |
| xylene (mixture of isomeres)      | DNEL  | Short term       | 442 mg/m <sup>3</sup>  | Workers               | Local      |
| Aylerie (mixture of isomeros)     | DIVLE | Inhalation       | 142 mg/m               | VVOINGIS              | Loodi      |
|                                   | DNEL  | Long term        | 221 mg/m <sup>3</sup>  | Workers               | Local      |
|                                   |       | Inhalation       | 3                      |                       |            |
|                                   | DNEL  | Long term Dermal | 212 mg/kg<br>bw/day    | Workers               | Systemic   |
|                                   | DNEL  | Long term        | 65,3 mg/m <sup>3</sup> | General               | Systemic   |
|                                   |       | Inhalation       |                        | population            |            |
|                                   | DNEL  | Long term Dermal | 125 mg/kg              | General               | Systemic   |
|                                   |       |                  | bw/day                 | population            |            |
|                                   | DNEL  | Long term Oral   | 125 mg/kg              | General               | Systemic   |
| - 41- 11 12 12-                   | DV    | 1 4              | bw/day                 | population            | 0          |
| ethylbenzene                      | DNEL  | Long term        | 77 mg/m³               | Workers               | Systemic   |
|                                   | DNEL  | Inhalation       | 180 ma/ka              | Workers               | Systemic   |
|                                   | DINEL | Long term Dermal | 180 mg/kg<br>bw/day    | MOIVEIS               | Gysterrite |
|                                   | DNEL  | Long term        | 15 mg/m <sup>3</sup>   | General               | Systemic   |
|                                   |       | Inhalation       | . 5g,                  | population            | 2,5.00     |
|                                   |       |                  |                        | [Consumers]           |            |
|                                   | DNEL  | Long term Oral   | 1,6 mg/kg              | General               | Systemic   |
|                                   |       |                  | bw/day                 | population            | *          |
|                                   |       |                  | _                      | [Consumers]           |            |

# **PNECs**

| Product/ingredient name                  | Compartment Detail    | Value       | <b>Method Detail</b>     |
|------------------------------------------|-----------------------|-------------|--------------------------|
| Reaction mass of ethylbenzene and xylene | Fresh water           | 0,327 mg/l  | -                        |
| ,                                        | Marine water          | 0,327 mg/l  | -                        |
|                                          | Fresh water sediment  | 12,46 mg/kg | -                        |
|                                          | Marine water sediment | 12,46 mg/kg | -                        |
|                                          | Soil                  | 2,31 mg/kg  | -                        |
|                                          | Sewage Treatment      | 6,58 mg/l   | -                        |
|                                          | Plant                 |             |                          |
| xylene (mixture of isomeres)             | Fresh water           | 0,327 mg/l  | Sensitivity Distribution |
| ,                                        | Marine water          | 0,327 mg/l  | Sensitivity Distribution |

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# **SECTION 8: Exposure controls/personal protection**

|              | Fresh water sediment  | 12,46 mg/kg | Equilibrium Partitioning |
|--------------|-----------------------|-------------|--------------------------|
|              | Marine water sediment | 12,46 mg/kg | Equilibrium Partitioning |
|              | Soil                  | 2,31 mg/kg  | Equilibrium Partitioning |
|              | Sewage Treatment      | 6,58 mg/l   | -                        |
|              | Plant                 |             |                          |
| ethylbenzene | Fresh water           | 0,1 mg/l    | -                        |
|              | Marine water          | 0,01 mg/l   | -                        |
|              | Fresh water sediment  | 13,7 mg/kg  | -                        |
|              | Marine water sediment | 1,37 mg/kg  | -                        |
|              | Soil                  | 2,68 mg/kg  | -                        |
|              | Sewage Treatment      | 9,6 mg/l    | -                        |
|              | Plant                 |             |                          |
|              |                       |             |                          |

#### 8.2 Exposure controls

# Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

# **Skin protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

# **Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): polyethylene (PE), polyvinyl alcohol (PVA)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

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# SECTION 8: Exposure controls/personal protection

## **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour (Type AX) and particulate filter (EN 140).

#### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

**Physical state** : Liquid. [Aerosol.]

Colour Silver.

Odour : Hydrocarbon. **Odour threshold** : Not available.

Melting point/freezing point Initial boiling point and

boiling range

: Not available. : Not available.

| Ingredient name | °C     | °F    | Method |
|-----------------|--------|-------|--------|
| dimethyl ether  | -24,82 | -12,7 |        |

Flammability (solid, gas)

: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Slightly flammable in the presence of the following materials or conditions:

shocks and mechanical impacts.

In use, may form flammable/explosive vapour-air mixture. Vapour may travel a considerable distance to source of ignition and flash back.

Lower and upper explosion

limit

Lower: 3% Upper: 18%

Closed cup: -40°C (-40°F) [Literature] Flash point

**Auto-ignition temperature Decomposition temperature** 

350°C (662°F) [Literature] Not available.

Not applicable.

pH: Justification

Product is non-soluble (in water).

**Viscosity** Not available.

Solubility(ies)

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# SECTION 9: Physical and chemical properties

| Media      | Result      |
|------------|-------------|
| cold water | Not soluble |
| hot water  | Not soluble |

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

: 420 kPa (3150,26 mm Hg) [calculated.] Vapour pressure

**Evaporation rate** : Not available. **Relative density** : Not available.

**Density** : 0,88 to 0,98 g/cm3 [20°C (68°F)] [DIN 53217]

: >1 [Air = 1] Vapour density

**Explosive properties** Highly explosive in the presence of the following materials or conditions: open

> flames, sparks and static discharge, heat and shocks and mechanical impacts. Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not puncture,

incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Container explosion may occur under fire conditions or when heated. Bursting aerosol containers may be propelled from a fire at high speed.

**Oxidising properties** Not available.

**Particle characteristics** 

Median particle size : Not applicable.

9.2 Other information

**Heat of combustion** : 19,46 kJ/g

**Aerosol product** 

Type of aerosol : Spray

# SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

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# **SECTION 11: Toxicological information**

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

# **Acute toxicity**

| Product/ingredient name      | Result                 | Species | Dose                     | Exposure  |
|------------------------------|------------------------|---------|--------------------------|-----------|
| dimethyl ether               | LC50 Inhalation Gas.   | Mouse   | 386 ppm                  | 0,5 hours |
|                              | LC50 Inhalation Gas.   | Rat     | 308000 mg/m <sup>3</sup> | 1 hours   |
|                              | LC50 Inhalation Gas.   | Rat     | 164000 ppm               | 4 hours   |
|                              | LC50 Inhalation Vapour | Rat     | 309 g/m <sup>3</sup>     | 4 hours   |
| Reaction mass of             | LC50 Inhalation Vapour | Rat     | 27124 mg/m <sup>3</sup>  | 4 hours   |
| ethylbenzene and xylene      |                        |         |                          |           |
|                              | LD50 Dermal            | Rabbit  | 12126 mg/kg              | -         |
|                              | LD50 Oral              | Rat     | 3523 mg/kg               | -         |
| xylene (mixture of isomeres) | LC50 Inhalation Gas.   | Rat     | 5000 ppm                 | 4 hours   |
|                              | LC50 Inhalation Gas.   | Rat     | 6670 ppm                 | 4 hours   |
|                              | LC50 Inhalation Vapour | Rat     | 29091 mg/m <sup>3</sup>  | 4 hours   |
|                              | LD50 Dermal            | Rabbit  | 4,2 g/kg                 | -         |
|                              | LD50 Oral              | Rat     | 4300 mg/kg               | -         |
|                              | TDLo Dermal            | Rabbit  | 4300 mg/kg               | -         |
| ethylbenzene                 | LC50 Inhalation Vapour | Rat     | 50000 mg/m <sup>3</sup>  | 2 hours   |
|                              | LC50 Inhalation Vapour | Rat     | 17 mg/l                  | 4 hours   |
|                              | LCLo Inhalation Vapour | Rat     | 4000 ppm                 | 4 hours   |
|                              | LD50 Oral              | Rat     | 3500 mg/kg               | -         |

Conclusion/Summary

: Based on available data, the classification criteria are not met.

# **Acute toxicity estimates**

| Product/ingredient name                  | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|------------------------------------------|------------------|-------------------|--------------------------------|-----------------------------------|----------------------------------------------|
| dimethyl ether                           | N/A              | N/A               | 164000                         | 309                               | N/A                                          |
| Reaction mass of ethylbenzene and xylene | 3523             | 1100              | N/A                            | 11                                | N/A                                          |
| xylene (mixture of isomeres)             | 4300             | 1100              | N/A                            | 11                                | N/A                                          |
| ethylbenzene                             | 3500             | N/A               | N/A                            | 17                                | N/A                                          |

# **Irritation/Corrosion**

| Product/ingredient name      | Result                   | Species | Score | Exposure                  | Observation |
|------------------------------|--------------------------|---------|-------|---------------------------|-------------|
| xylene (mixture of isomeres) | Eyes - Mild irritant     | Rabbit  | -     | 87 milligrams             | -           |
|                              | Eyes - Moderate irritant | Rabbit  | -     | -                         | -           |
|                              | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5 milligrams     | -           |
|                              | Skin - Mild irritant     | Rat     | -     | 8 hours 60 microliters    | -           |
|                              | Skin - Moderate irritant | Rabbit  | -     | 100 Percent               | -           |
|                              | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams   | -           |
| ethylbenzene                 | Eyes - Severe irritant   | Rabbit  | -     | 500<br>milligrams         | -           |
|                              | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15<br>milligrams | -           |

# **Conclusion/Summary**

Skin : Causes skin irritation.

Eyes : Causes serious eye irritation.

**Respiratory**: May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure if inhaled.

**Sensitisation** 

Conclusion/Summary

**Skin** : Based on available data, the classification criteria are not met.

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# SECTION 11: Toxicological information

: Based on available data, the classification criteria are not met. Respiratory

**Mutagenicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Carcinogenicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Reproductive toxicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Teratogenicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

# Specific target organ toxicity (single exposure)

| Product/ingredient name                  | Category   | Route of exposure | Target organs                |
|------------------------------------------|------------|-------------------|------------------------------|
| Reaction mass of ethylbenzene and xylene | Category 3 |                   | Respiratory tract irritation |
| xylene (mixture of isomeres)             | Category 3 | _                 | Respiratory tract irritation |

#### Specific target organ toxicity (repeated exposure)

| Product/ingredient name                                                                   | Category                                             | Route of exposure | Target organs                 |
|-------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------|-------------------------------|
| Reaction mass of ethylbenzene and xylene xylene (mixture of isomeres) ethylbenzene Nickel | Category 2<br>Category 2<br>Category 2<br>Category 1 | oral, inhalation  | -<br>-<br>hearing organs<br>- |

#### **Aspiration hazard**

| Product/ingredient name                                                            | Result                                                                                       |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Reaction mass of ethylbenzene and xylene xylene (mixture of isomeres) ethylbenzene | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Information on likely routes of exposure

: Routes of entry anticipated: Dermal, Inhalation.

Routes of entry not anticipated: Oral.

# Potential acute health effects

: Causes serious eye irritation. **Eye contact** Inhalation : May cause respiratory irritation.

: Causes skin irritation. Skin contact

: No known significant effects or critical hazards. Ingestion

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

: Adverse symptoms may include the following: Skin contact

> irritation redness

Ingestion : No specific data.

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# **SECTION 11: Toxicological information**

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**General**: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

| Product/ingredient name                  | Result                                   | Species                                 | Exposure |
|------------------------------------------|------------------------------------------|-----------------------------------------|----------|
| Reaction mass of ethylbenzene and xylene | NOEC 0,44 mg/l                           | Algae                                   | 72 hours |
| ,                                        | NOEC 0,96 mg/l                           | Daphnia spec.                           | 7 days   |
|                                          | NOEC 1,3 mg/l                            | Fish                                    | 56 days  |
| xylene (mixture of isomeres)             | Acute EC50 1,3 mg/l Fresh water          | Algae                                   | 72 hours |
| ,                                        | Acute LC50 1 mg/l Fresh water            | Daphnia spec.                           | 24 hours |
|                                          | Acute NOEC 0,44 mg/l                     | Algae                                   | 72 hours |
|                                          | Chronic NOEC 0,96 mg/l Fresh water       | Daphnia spec.                           | 21 days  |
| ethylbenzene                             | Acute EC50 3600 µg/l Fresh water         | Algae - Pseudokirchneriella subcapitata | 96 hours |
|                                          | Acute EC50 9,46 to 6530 µg/l Fresh water | Crustaceans - Artemia sp<br>Nauplii     | 48 hours |
|                                          | Acute EC50 4,4 to 2970 µg/l Fresh water  | Daphnia spec Daphnia<br>magna - Neonate | 48 hours |
|                                          | Acute LC50 5200 µg/l Marine water        | Crustaceans - Americamysis bahia        | 48 hours |
|                                          | Acute LC50 13,7 to 8780 µg/l Fresh water | Crustaceans - Artemia sp<br>Nauplii     | 48 hours |
|                                          | Acute LC50 4200 µg/l Fresh water         | Fish - Oncorhynchus mykiss              | 96 hours |
|                                          | Acute LC50 11 to 9090 μg/l Fresh water   | Fish - Pimephales promelas              | 96 hours |
|                                          | Chronic NOEC 1000 μg/l Fresh water       | Algae - Pseudokirchneriella subcapitata | 96 hours |
| chromium                                 | Acute EC50 0,2 ppm Marine water          | Algae - Bacillariophyta                 | 72 hours |
|                                          | Acute EC50 5 ppm Marine water            | Algae - Macrocystis pyrifera -<br>Young | 4 days   |
|                                          | Acute EC50 35000 µg/l Fresh water        | Aquatic plants - Lemna minor            | 4 days   |

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# **SECTION 12: Ecological information**

|        | Acute LC50 45 μg/l Fresh water     | Crustaceans - Ceriodaphnia reticulata | 48 hours |
|--------|------------------------------------|---------------------------------------|----------|
|        | Acute LC50 22 μg/l Fresh water     | Daphnia spec Daphnia magna            | 48 hours |
|        | Acute LC50 13,9 ppm Fresh water    | Fish - Anguilla rostrata              | 96 hours |
|        | Chronic NOEC 50 mg/l Marine water  | Algae - Glenodinium halli             | 72 hours |
|        | Chronic NOEC 0,19 µg/l Fresh water | Fish - Cyprinus carpio                | 4 weeks  |
| Nickel | Acute EC50 2 ppm Marine water      | Algae - Macrocystis pyrifera -        | 4 days   |
|        |                                    | Young                                 |          |
|        | Acute EC50 450 μg/l Fresh water    | Aquatic plants - Lemna minor          | 4 days   |
|        | Acute EC50 1000 μg/l Marine water  | Daphnia spec Daphnia magna            | 48 hours |
|        | Acute IC50 0,31 mg/l Marine water  | Crustaceans - Americamysis            | 48 hours |
|        |                                    | bahia - Juvenile (Fledgling,          |          |
|        |                                    | Hatchling, Weanling)                  |          |
|        | Acute LC50 47,5 ng/L Fresh water   | Fish - Heteropneustes fossilis        | 96 hours |
|        | Chronic NOEC 100 mg/l Marine water | Algae - Glenodinium halli             | 72 hours |
|        | Chronic NOEC 3,5 µg/l Fresh water  | Fish - Cyprinus carpio                | 4 weeks  |

**Conclusion/Summary** 

: Based on available data, the classification criteria are not met.

# 12.2 Persistence and degradability

| Product/ingredient name      | Test      | Result                  | Dose | Inoculum |
|------------------------------|-----------|-------------------------|------|----------|
| xylene (mixture of isomeres) | -         | 90 % - Readily - 5 days | -    | -        |
|                              | OECD 301F | 87,8 % - 28 days        | -    | -        |

# **Conclusion/Summary**

: Based on available data, the classification criteria are not met. This product has not been tested for biodegradation.

| Product/ingredient name      | Aquatic half-life | Photolysis | Biodegradability |
|------------------------------|-------------------|------------|------------------|
| xylene (mixture of isomeres) | -                 | -          | Readily          |
| ethylbenzene                 | -                 | -          | Readily          |

## 12.3 Bioaccumulative potential

| Product/ingredient name      | LogPow | BCF         | Potential |
|------------------------------|--------|-------------|-----------|
| dimethyl ether               | 0,07   | -           | low       |
| xylene (mixture of isomeres) | 3,12   | 8.1 to 25.9 | low       |
| ethylbenzene                 | 3,6    | 79,43       | low       |

# 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

Mobility : Volatile.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# 12.6 Endocrine disrupting properties

Not available.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

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# SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: Yes.

# **European waste catalogue (EWC)**

| Waste code | Waste designation                                                 |
|------------|-------------------------------------------------------------------|
| 20 01 27*  | paint, inks, adhesives and resins containing hazardous substances |

**Special precautions** 

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

# SECTION 14: Transport information

|                                    | ADR/RID                                 | ADN                 | IMDG                                                                                 | IATA                                                                                                                                                                                                                          |
|------------------------------------|-----------------------------------------|---------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.1 UN number or ID number        | UN1950                                  | UN1950              | UN1950                                                                               | UN1950                                                                                                                                                                                                                        |
| 14.2 UN proper shipping name       | AEROSOLS, flammable                     | AEROSOLS, flammable | AEROSOLS, flammable                                                                  | AEROSOLS, flammable                                                                                                                                                                                                           |
| 14.3 Transport<br>hazard class(es) | 2                                       | 2                   | 2.1                                                                                  | 2.1                                                                                                                                                                                                                           |
| 14.4 Packing group                 | -                                       | -                   | -                                                                                    | -                                                                                                                                                                                                                             |
| 14.5<br>Environmental<br>hazards   | No.                                     | No.                 | No.                                                                                  | No.                                                                                                                                                                                                                           |
| Additional information             | Limited quantity : < 1L Tunnel code (D) |                     | Emergency<br>schedules F-D, S-U<br>Remarks : ≤ 1L:<br>Limited Quantity -<br>IMDG 3.4 | Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203. |

# user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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# **SECTION 14: Transport information**

14.7 Transport in bulk according to IMO instruments

: Not available.

# **SECTION 15: Regulatory information**

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

**Other EU regulations** 

VOC :

VOC for Ready-for-Use : Exempt

**Mixture** 

Industrial emissions : Listed

(integrated pollution prevention and control) -

**Air** 

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

**United Kingdom: Great Britain** 

UK (GB) /REACH

**Annex XIV - List of substances subject to authorisation** 

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

**Prior Informed Consent (PIC)** 

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Aerosol dispensers** 

UK CA

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

**Danger criteria** 

**Category** 

P3a

**Annex XVII - Restrictions**: Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

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# **SECTION 15: Regulatory information**

## **International regulations**

# **Stockholm Convention on Persistent Organic Pollutants**

| List name   | Ingredient name | Status |
|-------------|-----------------|--------|
| Not listed. |                 |        |

# Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

| List name   | Ingredient name | Status |
|-------------|-----------------|--------|
| Not listed. |                 |        |

**CN code** : 3208 10 90 00

**Inventory list** 

Australia : Not determined.

Canada : Not determined.

China : At least one component is not listed.

**Eurasian Economic Union: Russian Federation inventory:** Not determined.

Japan : Japan inventory (CSCL): At least one component is not listed.

Japan inventory (ISHL): At least one component is not listed.

**New Zealand** : At least one component is not listed.

Philippines : Not determined.

**Republic of Korea** : At least one component is not listed.

Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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# **SECTION 16: Other information**

| Classification        | Justification   |
|-----------------------|-----------------|
| Aerosol 1, H222, H229 | Expert judgment |
| Skin Irrit. 2, H315   | Expert judgment |
| Eye Irrit. 2, H319    | Expert judgment |
| STOT SE 3, H335       | Expert judgment |
| STOT RE 2, H373       | Expert judgment |

## Full text of abbreviated H statements

# **United Kingdom: Great Britain**

Full text of abbreviated H statements

| H220  | Extremely flammable gas.                                         |
|-------|------------------------------------------------------------------|
| H222, | Extremely flammable aerosol. Pressurised container: may burst if |
| H229  | heated.                                                          |
| H225  | Highly flammable liquid and vapour.                              |
| H226  | Flammable liquid and vapour.                                     |
| H304  | May be fatal if swallowed and enters airways.                    |
| H312  | Harmful in contact with skin.                                    |
| H315  | Causes skin irritation.                                          |
| H317  | May cause an allergic skin reaction.                             |
| H319  | Causes serious eye irritation.                                   |
| H332  | Harmful if inhaled.                                              |
| H335  | May cause respiratory irritation.                                |
| H351  | Suspected of causing cancer.                                     |
| H372  | Causes damage to organs through prolonged or repeated exposure.  |
| H373  | May cause damage to organs through prolonged or repeated         |
|       | exposure.                                                        |
| H412  | Harmful to aquatic life with long lasting effects.               |
| H413  | May cause long lasting harmful effects to aquatic life.          |

# Full text of classifications [CLP/GHS]

| Acute Tox. 4  | ACUTE TOXICITY - Category 4                        |
|---------------|----------------------------------------------------|
| Aerosol 1     | AEROSOLS - Category 1                              |
| Aquatic       | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3    |
| Chronic 3     |                                                    |
| Aquatic       | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4    |
| Chronic 4     |                                                    |
| Asp. Tox. 1   | ASPIRATION HAZARD - Category 1                     |
| Carc. 2       | CARCINOGENICITY - Category 2                       |
| Eye Irrit. 2  | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2     |
| Flam. Gas 1A  | FLAMMABLE GASES - Category 1A                      |
| Flam. Liq. 2  | FLAMMABLE LIQUIDS - Category 2                     |
| Flam. Liq. 3  | FLAMMABLE LIQUIDS - Category 3                     |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2             |
| Skin Sens. 1  | SKIN SENSITISATION - Category 1                    |
| STOT RE 1     | SPECIFIC TARGET ORGAN TOXICITY - REPEATED          |
|               | EXPOSURE - Category 1                              |
| STOT RE 2     | SPECIFIC TARGET ORGAN TOXICITY - REPEATED          |
|               | EXPOSURE - Category 2                              |
| STOT SE 3     | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - |
|               | Category 3                                         |
| <u> </u>      |                                                    |

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Acute Tox. 4

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**Notice to reader** 

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# **SECTION 16: Other information**

IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.