

Revision date 01/12/2025

Revision Number 2

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

### 1.1. Product identifier

**Product Name** EGR & Carb Cleaner  
**Product Code(s)** HMTN0201B, FAIFPEGR500, NQA2500  
**Safety data sheet number** 000056  
**Unique Formula Identifier (UFI)** 4T40-7098-V00M-FHVK  
**Pure substance/mixture** Mixture

Contains XYLENE-ortho; Acetone; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

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

**Recommended use** Car Maintenance Product  
**Uses advised against** No information available

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

|   |                      |
|---|----------------------|
| <b>Manufacturer</b>                     | <b>Supplier</b>      |
| Holts Auto                              | Holt Lloyd Services, |
| Unit 100 Barton Dock Road               | 52 Rue des 40 Mines, |
| Manchester                              | 60000 – Allonne,     |
| United Kingdom                          | France               |
| M32 0YQ                                 |                      |
| For further information, please contact |                      |

**Contact Point** www.holtsauto.com

**E-mail address** info@holtsauto.com

### 1.4. Emergency telephone number

**Emergency Telephone** Holt Lloyd International: UK - 00 44 (0) 161 866 4800 Office Hours - Mon - Thurs: 8am - 5pm. Fri - 8am - 1pm.  
00 44 (0) 161 866 4871 (24 Hour Voicemail).

| Emergency Telephone - (EC)1272/2008 |   |
|-------------------------------------|---|
| Europe                              | Europe: 00 44 (0) 161 866 4800 Office Hours - Mon - Thurs: 8am - 5pm. Fri - 8am - 1pm.<br>00 44 (0) 161 866 4871 (24 Hour Voicemail). |
| Austria                             | +43 1 31304 5620; chemikalien@umweltbundesamt.at  |
| Belgium                             | +3270245245; info@poisoncentre.be   |
| Czech Republic                      | Toxikologické informační středisko v Praze Na Bojišti 1, 120 00 Praha 2 Tel: +420 224 919 293   |
| France                              | +33 (0)3 64 99 00 32 Heures de travail - Lundi- Vendredi: 8am- 5pm. (Messagerie vocale 24 heures sur 24)                              |

|                |  |
|----------------|--|
| Hungary        | Az Egészségügyi Toxikológiai Tájékoztató Szolgálat elérhetőségei Levelezési cím: 1097 Budapest, Nagyvárad tér 2. (+36-80) 201-199                            |
| Ireland        | +353 (1) 809 2166 / +353 (1) 809 2566; chemicalsinfo@beaumont.ie   |
| Slovakia       | Národné toxikologické informačné centrum, Klinika pracovného lekárstva a toxikológie LF UK, Limbová 5, 833 05 Bratislava. Tel.: 02/5477 4166.                |
| United Kingdom | Holt Lloyd International: UK - 00 44 (0) 161 866 4800 Office Hours - Mon - Thurs: 8am - 5pm. Fri - 8am - 1pm.<br>00 44 (0) 161 866 4871 (24 Hour Voicemail). |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|   |                           |
|---|---------------------------|
| <b>Aerosols</b>   | Category 1 - (H222, H229) |
| <b>Acute toxicity - Inhalation (Gases)</b>              | Category 4 - (H332)       |
| <b>Acute toxicity - Inhalation (Dusts/Mists)</b>        | Category 4 - (H332)       |
| <b>Skin corrosion/irritation</b>                        | Category 2 - (H315)       |
| <b>Serious eye damage/eye irritation</b>                | Category 2 - (H319)       |
| <b>Specific target organ toxicity — single exposure</b> | Category 3 - (H335, H336) |
| <b>Hazardous to the aquatic environment - chronic</b>   | Category 2 - (H411)       |

### 2.2. Label elements

Contains XYLENE-ortho; Acetone; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane



#### Signal word

Danger

#### Hazard statements

H222 - Extremely flammable aerosol  
H229 - Pressurised container: May burst if heated  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects  
EUH066 - Repeated exposure may cause skin dryness or cracking

#### Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
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.  
P251 - Do not pierce or burn, even after use.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, eye protection and face protection.  
P391 - Collect spillage.  
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 - Dispose of contents/ container to an approved waste disposal plant.

#### Labelling for contents according to regulation (EC) No. 648/2004

|                        |        |
|------------------------|--------|
| Aliphatic hydrocarbons | >= 30% |
|------------------------|--------|

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

**Additional information**

This product requires tactile warnings if supplied to the general public.

**2.3. Other hazards**

No information available.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical name   | Weight-%  | REACH registration number | EC No (EU Index No)         | Classification according to Regulation (EC) No. 1272/2008 [CLP]  | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|-----------|---------------------------|-----------------------------|--|------------------------------------|----------|----------------------|
| XYLENE-ortho<br>95-47-6   | 25 - <50% | No data available         | 202-422-2<br>(601-022-00-9) | Acute Tox. 4 (H312)<br>Acute Tox. 4 (H332)<br>Skin Irrit. 2 (H315)<br>Flam. Liq. 3 (H226)<br>Aquatic Chronic 3 (H412)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H335)<br>Asp. Tox. 1 (H304) | -                                  | -        | -                    |
| Acetone<br>67-64-1  | 10 - <25% | 01-2119471330-49-00<br>00 | 200-662-2<br>(606-001-00-8) | Eye Irrit. 2 (H319)<br>STOT SE 3 (H336)<br>Flam. Liq. 2 (H225)<br>(EUH066)   | -                                  | -        | -                    |
| Hydrocarbons,<br>C6-C7, n-alkanes,<br>isoalkanes, cyclics,<br><5% n-hexane<br>- | 5 - <10%  | No data available         | -                           | Flam. Liq. 2 (H225)<br>Asp. Tox. 1 (H304)<br>Skin Irrit. 2 (H315)<br>STOT SE 3 (H336)<br>Aquatic Chronic 2 (H411)  | -                                  | 9        | -                    |

**Full text of H- and EUH-phrases: see section 16**

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name           | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|-------------------------|-----------------|-------------------|---|--|--------------------------------------|
| XYLENE-ortho<br>95-47-6 | 3608            | 14100             | No data available                           | 23.0258                                  | No data available                    |
| Acetone<br>67-64-1      | 5800            | 15700             | 100.2                                       | No data available                        | No data available                    |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>                         | Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.   |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.  |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.   |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.   |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists. Use personal protective equipment as required. See section 8 for more information. |

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

|                            |   |
|----------------------------|---|
| <b>Symptoms</b>            | May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty in breathing. |
| <b>Effects of Exposure</b> | No information available.   |

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

|                        |                        |
|------------------------|------------------------|
| <b>Note to doctors</b> | Treat symptomatically. |
|------------------------|------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                     |  |
|-------------------------------------|--|
| <b>Suitable Extinguishing Media</b> | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray.      |
| <b>Large Fire</b>                   | CAUTION: Use of water spray when fighting fire may be inefficient. |

**Unsuitable extinguishing media** DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

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

**Specific hazards arising from the chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated.

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

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid breathing vapours or mists.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

**Methods for containment** Keep out of drains, sewers, ditches and waterways. Stop leak if you can do it without risk. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Flood with water to complete polymerization and scrape off floor.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

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

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Advice on safe handling** Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use spark-proof tools and explosion-proof equipment.

Handle product only in closed system or provide appropriate exhaust ventilation. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure. In case of rupture. Avoid breathing vapours or mists. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

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

**Storage Conditions** Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Keep out of the reach of children.

**Storage class (TRGS 510)** LGK 2B.

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

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

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

**8.1. Control parameters**

**Exposure Limits**

| Chemical name           | European Union   | Austria   | Belgium   | Bulgaria  | Croatia   |
|-------------------------|--|---|---|---|---|
| XYLENE-ortho<br>95-47-6 | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>* | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL 100 ppm<br>STEL 442 mg/m <sup>3</sup>     | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>D* | STEL: 100 ppm<br>STEL: 442.0 mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 221.0 mg/m <sup>3</sup><br>K* | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>*    |
| Acetone<br>67-64-1      | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 1200 mg/m <sup>3</sup><br>STEL 2000 ppm<br>STEL 4800 mg/m <sup>3</sup> | TWA: 246 ppm<br>TWA: 594 mg/m <sup>3</sup><br>STEL: 492 ppm<br>STEL: 1187 mg/m <sup>3</sup>     | STEL: 1400 mg/m <sup>3</sup><br>TWA: 600 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   |
| Chemical name           | Cyprus   | Czech Republic  | Denmark   | Estonia   | Finland   |
| XYLENE-ortho<br>95-47-6 | *<br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup> | TWA: 200 mg/m <sup>3</sup><br>Ceiling: 400 mg/m <sup>3</sup><br>D*                          | TWA: 25 ppm<br>TWA: 109 mg/m <sup>3</sup><br>H*<br>STEL: 442 mg/m <sup>3</sup><br>STEL: 100 ppm | TWA: 50 ppm<br>TWA: 200 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 450 mg/m <sup>3</sup><br>A*     | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 440 mg/m <sup>3</sup><br>iho* |
| Acetone<br>67-64-1      | *<br>TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   | TWA: 800 mg/m <sup>3</sup><br>Ceiling: 1500 mg/m <sup>3</sup>                               | TWA: 250 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1200 mg/m <sup>3</sup>     | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 1200 mg/m <sup>3</sup><br>STEL: 630 ppm<br>STEL: 1500 mg/m <sup>3</sup>      |
| Chemical name           | France   | Germany TRGS  | Germany DFG   | Greece  | Hungary   |
| XYLENE-ortho<br>95-47-6 | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup>  | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup>   | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup>   | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup>  | TWA: 221 mg/m <sup>3</sup><br>TWA: 50 ppm   |

|                         |   |  |   |   |   |
|-------------------------|---|--|---|---|---|
|                         | STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>*   | H*   | Peak: 100 ppm<br>Peak: 440 mg/m <sup>3</sup><br>*   | STEL: 150 ppm<br>STEL: 650 mg/m <sup>3</sup><br>*   | STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>b*  |
| Acetone<br>67-64-1      | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 2420 mg/m <sup>3</sup>                   | TWA: 500 ppm<br>TWA: 1200 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 1200 mg/m <sup>3</sup><br>Peak: 1000 ppm<br>Peak: 2400 mg/m <sup>3</sup>     | TWA: 1780 mg/m <sup>3</sup><br>STEL: 3560 mg/m <sup>3</sup>                                       | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   |
| <b>Chemical name</b>    | <b>Ireland</b>  | <b>Italy MDLPS</b>   | <b>Italy AIDII</b>  | <b>Latvia</b>   | <b>Lithuania</b>  |
| XYLENE-ortho<br>95-47-6 | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>Sk*                | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>cute* | TWA: 100 ppm<br>TWA: 434 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 651 mg/m <sup>3</sup>        | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>Ada* | O*<br>TWA: 221 mg/m <sup>3</sup><br>TWA: 50 ppm<br>STEL: 442 mg/m <sup>3</sup><br>STEL: 100 ppm           |
| Acetone<br>67-64-1      | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 1500 ppm<br>STEL: 3630 mg/m <sup>3</sup>                   | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>  | TWA: 250 ppm<br>TWA: 594 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1187 mg/m <sup>3</sup>       | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 2420 mg/m <sup>3</sup>             |
| <b>Chemical name</b>    | <b>Luxembourg</b>   | <b>Malta</b>   | <b>Netherlands</b>  | <b>Norway</b>   | <b>Poland</b>   |
| XYLENE-ortho<br>95-47-6 | Peau*<br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup>              | skin*<br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup> | TWA: 47.5 ppm<br>TWA: 210 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>H* | TWA: 25 ppm<br>TWA: 108 mg/m <sup>3</sup><br>STEL: 37.5 ppm<br>STEL: 135 mg/m <sup>3</sup><br>H*  | STEL: 200 mg/m <sup>3</sup><br>TWA: 100 mg/m <sup>3</sup><br>skóra*                                       |
| Acetone<br>67-64-1      | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 1 ppm<br>STEL: 2420 mg/m <sup>3</sup>        | TWA: 125 ppm<br>TWA: 295 mg/m <sup>3</sup><br>STEL: 156.25 ppm<br>STEL: 368.75 mg/m <sup>3</sup>  | STEL: 1800 mg/m <sup>3</sup><br>TWA: 600 mg/m <sup>3</sup>  |
| <b>Chemical name</b>    | <b>Portugal</b>   | <b>Romania</b>   | <b>Slovakia</b>   | <b>Slovenia</b>   | <b>Spain</b>  |
| XYLENE-ortho<br>95-47-6 | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>Cutânea*           | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>P*    | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>K*<br>Ceiling: 442 mg/m <sup>3</sup>                 | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>K*   | TWA: 50 ppm<br>TWA: 221 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 442 mg/m <sup>3</sup><br>vía dérmica* |
| Acetone<br>67-64-1      | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 750 ppm  | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 2420 mg/m <sup>3</sup><br>STEL: 1000 ppm     | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup>   |
| <b>Chemical name</b>    | <b>Sweden</b>   |  | <b>Switzerland</b>  | <b>United Kingdom</b>   |   |
| XYLENE-ortho<br>95-47-6 | NGV: 50 ppm<br>NGV: 221 mg/m <sup>3</sup><br>Bindande KGV: 100 ppm<br>Bindande KGV: 442 mg/m <sup>3</sup><br>H* |  | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 440 mg/m <sup>3</sup><br>H*   | TWA: 50 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 441 mg/m <sup>3</sup><br>Sk*  |   |
| Acetone<br>67-64-1      | NGV: 250 ppm<br>NGV: 600 mg/m <sup>3</sup><br>Vägledande KGV: 500 ppm<br>Vägledande KGV: 1200 mg/m <sup>3</sup> |  | TWA: 500 ppm<br>TWA: 1200 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 2400 mg/m <sup>3</sup>     | TWA: 500 ppm<br>TWA: 1210 mg/m <sup>3</sup><br>STEL: 1500 ppm<br>STEL: 3620 mg/m <sup>3</sup>     |   |

**Biological occupational exposure limits**

| Chemical name           | European Union | Austria   | Bulgaria | Croatia   | Czech Republic |
|-------------------------|----------------|---|----------|---|----------------|
| XYLENE-ortho<br>95-47-6 | -              | 1.5 g/L (urine - Methylhippuric acid after end of work day, at the end of a work week/end of the shift) | -        | 1.50 mg/L - blood (Xylene) - at the end of the work shift<br>1.50 g/g Creatinine - urine (Methylhippuric acid) - at the end of the work shift | -              |

|                         |  |  |  |  |   |
|-------------------------|--|--|--|--|---|
| Acetone<br>67-64-1      | -  | -  | 80 mg/L - urine<br>(Acetone) - at the<br>end of exposure or<br>end of work shift           | 20.0 mg/L - blood<br>(Acetone) - at the<br>end of the work shift<br>20.0 mg/g Creatinine<br>- urine (Acetone) - at<br>the end of the work<br>shift                       | -   |
| <b>Chemical name</b>    | <b>Denmark</b>   | <b>Finland</b>   | <b>France</b>  | <b>Germany DFG</b>   | <b>Germany TRGS</b>   |
| XYLENE-ortho<br>95-47-6 | -  | -  | - urine<br>(Methylhippuric acid)<br>- end of shift   | 2000 mg/L (urine -<br>Methylhippuric(tolur-<br>)acid (all isomers)<br>end of shift)<br>2000 mg/L - BAT<br>(end of exposure or<br>end of shift) urine                     | 2000 mg/L (urine -<br>Methylhippuric(tolur-<br>)acid (all isomers)<br>end of shift) |
| Acetone<br>67-64-1      | -  | -  | - urine (Acetone) -<br>end of shift  | 50 mg/L (urine -<br>Acetone end of shift)<br>50 mg/L - BAT (end<br>of exposure or end<br>of shift) urine<br>2.5 mg/L - BAR (end<br>of exposure or end<br>of shift) urine | 50 mg/L (urine -<br>Acetone end of shift)   |
| <b>Chemical name</b>    | <b>Hungary</b>   | <b>Ireland</b>   | <b>Italy MDLPS</b>   | <b>Italy AIDII</b>   |   |
| XYLENE-ortho<br>95-47-6 | 1500 mg/g Creatinine<br>(urine - Methyl hippuric<br>acid end of shift)<br>860 µmol/mmol<br>Creatinine (urine - Methyl<br>hippuric acid end of shift) | 1.5 g/g Creatinine (urine -<br>Methylhippuric acids end<br>of shift) | -  | 1.5 g/g Creatinine - urine<br>(Methylhippuric acids) -<br>end of shift   |   |
| Acetone<br>67-64-1      | -  | 50 mg/L (urine - Acetone<br>end of shift)                            | -  | 25 mg/L - urine (Acetone)<br>- end of shift  |   |
| <b>Chemical name</b>    | <b>Latvia</b>  | <b>Luxembourg</b>  | <b>Romania</b>   | <b>Slovakia</b>  |   |
| XYLENE-ortho<br>95-47-6 | -  | -  | 3 g/L - urine<br>(Methylhippuric acid) -<br>end of shift                                   | -  |   |
| Acetone<br>67-64-1      | -  | -  | 50 mg/L - urine (Acetone)<br>- end of shift  | 80 mg/L (urine - Acetone<br>end of exposure or work<br>shift)  |   |
| <b>Chemical name</b>    | <b>Slovenia</b>  | <b>Spain</b>   | <b>Switzerland</b>   | <b>United Kingdom</b>  |   |
| XYLENE-ortho<br>95-47-6 | 2 g/L - urine<br>(Methylhippuric acid (all<br>isomers)) - at the end of<br>the work shift  | -  | -  | 650 mmol/mol creatinine -<br>urine (Methyl hippuric<br>acid) - post shift  |   |
| Acetone<br>67-64-1      | 80.0 mg/L - urine<br>(Acetone) - at the end of<br>the work shift   | 50 mg/L (urine - Acetone<br>end of shift)                            | 50 mg/L (urine - Acetone<br>end of shift)<br>0.86 mmol/L (urine -<br>Acetone end of shift) | -  |   |

**Derived No Effect Level (DNEL) - Workers**

| Chemical name      | Oral | Dermal                   | Inhalation   |
|--------------------|------|--------------------------|--|
| Acetone<br>67-64-1 | -    | 186 mg/kg bw/day [4] [6] | 1210 mg/m <sup>3</sup> [4] [6]<br>2420 mg/m <sup>3</sup> [5] [7] |

**Notes**

[4]

Systemic health effects.

- [5] Local health effects.
- [6] Long term.
- [7] Short term.

**Derived No Effect Level (DNEL) - General Public**

| Chemical name      | Oral                    | Dermal | Inhalation                    |
|--------------------|-------------------------|--------|-------------------------------|
| Acetone<br>67-64-1 | 62 mg/kg bw/day [4] [6] | -      | 200 mg/m <sup>3</sup> [4] [6] |

**Notes**

- [4] Systemic health effects.
- [6] Long term.

**Predicted No Effect Concentration (PNEC)**

| Chemical name      | Freshwater | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|--------------------|------------|--------------------------------------|--------------|--|-----|
| Acetone<br>67-64-1 | 10.6 mg/L  | 21 mg/L                              | 1.06 mg/L    | -                                      | -   |

| Chemical name      | Freshwater<br>sediment    | Marine sediment           | Sewage treatment | Soil               | Food chain |
|--------------------|---------------------------|---------------------------|------------------|--------------------|------------|
| Acetone<br>67-64-1 | 30.4 mg/kg<br>sediment dw | 3.04 mg/kg<br>sediment dw | 100 mg/L         | 29.5 mg/kg soil dw | -          |

**8.2. Exposure controls**

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles. Safety glasses with side shields are recommended for medical or industrial exposures.

**Hand protection** Impervious gloves. Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

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

|                 |                          |
|-----------------|--------------------------|
| Physical state  | Aerosol                  |
| Appearance      | Aerosol                  |
| Colour          | Colourless               |
| Odour           | Aromatic hydrocarbons.   |
| Odour threshold | No information available |

| <u>Property</u>                         | <u>Values</u>            | <u>Remarks • Method</u>    |
|---|--------------------------|----------------------------|
| Melting point / freezing point          | No data available        | None known                 |
| Initial boiling point and boiling range | No data available - °C   | sds.support@halfords.co.uk |
| Flammability                            | No data available        | None known                 |
| Flammability Limit in Air               |                          | None known                 |
| Upper flammability or explosive limits  | No data available        |                            |
| Lower flammability or explosive limits  | No data available        |                            |
| Flash point                             | No data available °C     | Closed cup                 |
| Autoignition temperature                | 200 °C                   | sds.support@halfords.co.uk |
| Decomposition temperature               |                          | None known                 |
| pH                                      | No data available        | None known                 |
| pH (as aqueous solution)                | No data available        | None known                 |
| Kinematic viscosity                     | No data available        | None known                 |
| Dynamic viscosity                       | No data available        | None known                 |
| Water solubility                        | No data available        | None known                 |
| Solubility(ies)                         | No data available        | None known                 |
| Partition coefficient                   | No data available        | None known                 |
| Vapour pressure                         | No data available        | None known                 |
| Relative density                        | 0.825 @ 20°C             | None known                 |
| Bulk density                            | No data available        |                            |
| Liquid Density                          | No data available        |                            |
| Relative vapour density                 | No data available        | None known                 |
| Particle characteristics                |                          |                            |
| Particle Size                           | No information available |                            |
| Particle Size Distribution              | No information available |                            |

### 9.2. Other information

VOC content 95.89%

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

### Explosion data

Sensitivity to mechanical impact None.  
Sensitivity to static discharge Yes.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### 10.4. Conditions to avoid

**Conditions to avoid** Heat, flames and sparks. Excessive heat.

### 10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** None known based on information supplied.

## **SECTION 11: Toxicological information**

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

#### Information on likely routes of exposure

##### **Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness. Harmful by inhalation. (based on components). |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.   |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).  |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  |

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

**Symptoms** Redness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing.

#### Acute toxicity

##### **Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                 |
|--------------------------------------|-----------------|
| <b>ATEmix (oral)</b>                 | 8,539.60 mg/kg  |
| <b>ATEmix (dermal)</b>               | 33,372.80 mg/kg |
| <b>ATEmix (inhalation-gas)</b>       | 10,650.90 ppm   |
| <b>ATEmix (inhalation-vapour)</b>    | 54.50 mg/l      |
| <b>ATEmix (inhalation-dust/mist)</b> | 3.55 mg/l       |

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).  
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

**Component Information**

| Chemical name | Oral LD50            | Dermal LD50              | Inhalation LC50                       |
|---------------|----------------------|--------------------------|---------------------------------------|
| XYLENE-ortho  | = 3608 mg/kg ( Rat ) | = 14100 mg/kg ( Rabbit ) | = 4330 ppm ( Rat ) 6 h                |
| Acetone       | = 5800 mg/kg ( Rat ) | > 15700 mg/kg ( Rabbit ) | = 50100 mg/m <sup>3</sup> ( Rat ) 8 h |

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

| Chemical name | European Union |
|---------------|----------------|
| XYLENE-ortho  | Muta. 1B       |

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | European Union |
|---------------|----------------|
| XYLENE-ortho  | Carc. 1B       |

**Reproductive toxicity** No information available.

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

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

**Aspiration hazard** No information available.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**11.2.2. Other information**

**Other adverse effects** No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants                                  | Fish   | Toxicity to microorganisms | Crustacea   |
|---------------|---|--|----------------------------|---|
| XYLENE-ortho  | EC50: =4.7mg/L (72h, Pseudokirchneriella subcapitata) | LC50: 11.6 - 22.4mg/L (96h, Pimephales promelas)<br>LC50: 11.6 - 22.4mg/L (96h, Lepomis macrochirus)<br>LC50: 5.59 - 11.6mg/L (96h, Oncorhynchus mykiss)<br>LC50: =12mg/L (96h, Poecilia reticulata) | -                          | EC50: =3.2mg/L (48h, Daphnia magna)<br>EC50: 2.61 - 5.59mg/L (48h, Daphnia magna)<br>EC50: 0.78 - 2.51mg/L (48h, Daphnia magna) |
| Acetone       | -   | LC50: 4.74 - 6.33mg/L (96h, Oncorhynchus mykiss)<br>LC50: 6210 - 8120mg/L (96h, Pimephales promelas)<br>LC50: =8300mg/L (96h, Lepomis macrochirus)   | -                          | EC50: 10294 - 17704mg/L (48h, Daphnia magna)<br>EC50: 12600 - 12700mg/L (48h, Daphnia magna)                                    |

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation**

**Component Information**

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| XYLENE-ortho  | 3.12                  |
| Acetone       | -0.24                 |

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

| Chemical name | PBT and vPvB assessment         |
|---------------|---------------------------------|
| XYLENE-ortho  | The substance is not PBT / vPvB |
| Acetone       | The substance is not PBT / vPvB |

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

|  |  |
|--|--|
| <b>Waste from residues/unused products</b> | Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.  |

**SECTION 14: Transport information**

**IATA**

|  |                     |
|--|---------------------|
| <b>14.1 UN number or ID number</b>       | UN1950              |
| <b>14.2 UN proper shipping name</b>      | Aerosols, flammable |
| <b>14.3 Transport hazard class(es)</b>   | 2.1                 |
| <b>14.4 Packing group</b>                | None                |
| <b>14.5 Environmental hazards</b>        | Yes                 |
| <b>14.6 Special precautions for user</b> |                     |
| <b>Special Provisions</b>                | 190, 327, 344, 625  |

**IMDG**

|   |                          |
|---|--------------------------|
| <b>14.1 UN number or ID number</b>                                  | UN1950                   |
| <b>14.2 UN proper shipping name</b>                                 | AEROSOLS, FLAMMABLE      |
| <b>14.3 Transport hazard class(es)</b>                              | 2.1                      |
| <b>14.4 Packing group</b>   | None                     |
| <b>14.5 Environmental hazards</b>                                   | Yes                      |
| <b>14.6 Special precautions for user</b>                            |                          |
| <b>Special Provisions</b>   | None                     |
| <b>EmS-No.</b>  | F-D, S-U                 |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b> | No information available |

**RID**

|  |                    |
|--|--------------------|
| <b>14.1 UN number or ID number</b>       | UN1950             |
| <b>14.2 UN proper shipping name</b>      | AEROSOL, FLAMMABLE |
| <b>14.3 Transport hazard class(es)</b>   | 2.1                |
| <b>14.4 Packing group</b>                | None               |
| <b>14.5 Environmental hazards</b>        | Yes                |
| <b>14.6 Special precautions for user</b> |                    |
| <b>Special Provisions</b>                | None               |

**ADR**

|  |                     |
|--|---------------------|
| <b>14.1 UN number or ID number</b>       | UN1950              |
| <b>14.2 UN proper shipping name</b>      | AEROSOLS, FLAMMABLE |
| <b>14.3 Transport hazard class(es)</b>   | 2.1                 |
| <b>14.4 Packing group</b>                | None                |
| <b>14.5 Environmental hazards</b>        | Yes                 |
| <b>14.6 Special precautions for user</b> |                     |
| <b>Special Provisions</b>                | None                |
| <b>Tunnel restriction code</b>           | (D)                 |

## SECTION 15: Regulatory information

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

#### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

| Chemical name          | French RG number |
|------------------------|------------------|
| XYLENE-ortho - 95-47-6 | RG 4bis, RG 84   |
| Acetone - 67-64-1      | RG 84            |

##### Germany

**Water hazard class (WGK)** obviously hazardous to water (WGK 2)

##### Netherlands

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|---------------|-----------------------------------|--------------------------------|---|
| XYLENE-ortho  | -                                 | -                              | Development Category 2                    |

##### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

##### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name          | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|------------------------|---|--|
| XYLENE-ortho - 95-47-6 | Use restricted. See entry 75.             | -  |
| Acetone - 67-64-1      | Use restricted. See entry 75.             | -  |

##### Persistent Organic Pollutants

Not applicable

##### Dangerous substance category per Seveso Directive (2012/18/EU)

P3a - FLAMMABLE AEROSOLS

P3b - FLAMMABLE AEROSOLS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

##### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

##### International Inventories

TSCA

DSL/NDSL

EINECS/ELINCS

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

Contact supplier for inventory compliance status

|              |  |
|--------------|--|
| <b>ENCS</b>  | Contact supplier for inventory compliance status |
| <b>IECSC</b> | Contact supplier for inventory compliance status |
| <b>KECL</b>  | Contact supplier for inventory compliance status |
| <b>PICCS</b> | Contact supplier for inventory compliance status |
| <b>AIIC</b>  | Contact supplier for inventory compliance status |
| <b>NZIoC</b> | Contact supplier for inventory compliance status |

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AIIC** - Australian Inventory of Industrial Chemicals
- NZIoC** - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

- 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
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H336 - May cause drowsiness or dizziness
- H411 - Toxic to aquatic life with long lasting effects
- H412 - Harmful to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |
| +       | Sensitisers                 |      |                                  |

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |

|                          |                       |
|--------------------------|-----------------------|
| Skin sensitisation       | Calculation method    |
| Mutagenicity             | Calculation method    |
| Carcinogenicity          | Calculation method    |
| Reproductive toxicity    | Calculation method    |
| STOT - single exposure   | Calculation method    |
| STOT - repeated exposure | Calculation method    |
| Acute aquatic toxicity   | Calculation method    |
| Chronic aquatic toxicity | Calculation method    |
| Ozone                    | Calculation method    |
| Flammable aerosol        | On basis of test data |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
 Organisation for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

**Revision date** 01/12/2025

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

**End of Safety Data Sheet**