

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

#### 1.1. Product identifier

Product form : Mixture  
 Trade name : MITREBOND ACTIVATOR aerosol  
 Vaporizer : Aerosol

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

##### Relevant identified uses

Main use category : Professional use  
 Industrial/Professional use spec : Industrial  
 Use of the substance/mixture : Adhesives, binding agents  
 Function or use category : Adhesives, binding agents

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

##### Supplier

IPS Adhesives  
 Unika House  
 New York Way  
 NE27 0QF Newcastle upon Tyne, Tyne & Wear  
 United Kingdom  
 T +44 (0)191 259 0033, F +44 (0)191 257 4525  
[sales@unika.co.uk](mailto:sales@unika.co.uk), [www.unika.co.uk](http://www.unika.co.uk)

#### 1.4. Emergency telephone number

Emergency number : 800-255-3927 (Domestic); +1 813-248 0585 (International)  
 VelocityEHS: 24 hrs/7 days

### SECTION 2: Hazards identification

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

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

Aerosol, Category 1 H222;H229  
 Aerosol, Category 1 H222;H229  
 Skin corrosion/irritation, Category 2 H315  
 Specific target organ toxicity – Single exposure, Category 3, Narcosis H336  
 Hazardous to the aquatic environment – Acute Hazard, Category 1 H400  
 Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411  
 Full text of H- and EUH-statements: see section 16

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

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :     
 GHS02 GHS07 GHS09

Signal word (CLP) : Danger  
 Contains : HEPTANE

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|                                |  |
|--------------------------------|--|
| Hazard statements (CLP)        | : H222 - Extremely flammable aerosol.<br>H229 - Pressurised container: May burst if heated.<br>H315 - Causes skin irritation.<br>H336 - May cause drowsiness or dizziness.<br>H410 - Very toxic to aquatic life with long lasting effects.   |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P211 - Do not spray on an open flame or other ignition source.<br>P251 - Do not pierce or burn, even after use.<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P391 - Collect spillage.<br>P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name  | Product identifier   | %                | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|---|--|------------------|--|
| PROPANE<br>substance with national workplace exposure limit(s)<br>(BE, BG, DE, DK, EE, ES, FI, GR, LV, PL, RO, SI)                    | CAS-No.: 74-98-6<br>EC-No.: 200-827-9<br>EC Index-No.: 601-003-00-5  | $\geq 20 - < 50$ | Flam. Gas 1, H220<br>Press. Gas  |
| HEPTANE   | CAS-No.: 142-82-5<br>EC-No.: 205-563-8<br>EC Index-No.: 601-008-00-2 | $\geq 20 - < 50$ | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                      |
| BUTANE<br>substance with national workplace exposure limit(s)<br>(BE, BG, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, LV, PL, PT, SI, SK) | CAS-No.: 106-97-8<br>EC-No.: 203-448-7<br>EC Index-No.: 601-004-00-0 | $\geq 20 - < 50$ | Flam. Gas 1, H220<br>Press. Gas  |
| ISOBUTANE<br>substance with national workplace exposure limit(s)<br>(BE, DE, EE, FI, IE, PT, SI, SK)                                  | CAS-No.: 75-28-5<br>EC-No.: 200-857-2<br>EC Index-No.: 601-004-00-0  | $\geq 5 - < 10$  | Flam. Gas 1, H220<br>Press. Gas  |
| N,N-DIMETHYL-P-TOLUIDINE *  | CAS-No.: 99-97-8<br>EC-No.: 202-805-4<br>EC Index-No.: 612-056-00-9  | $< 1$            | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Carc. 2, H351<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412 |

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice. If experiencing respiratory symptoms: Get immediate medical advice/attention. |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.   |
| First-aid measures after eye contact  | : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.   |
| First-aid measures after ingestion    | : If swallowed, seek medical advice immediately and show this container or label. Rinse mouth out with water. Get medical advice/attention if you feel unwell.                          |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : Swallowing a small quantity of this material presents some health hazard.          |
| Symptoms/effects after inhalation   | : Inhalation may cause irritation (cough, short breathing, difficulty in breathing). |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. May cause moderate irritation.                |
| Symptoms/effects after eye contact  | : Eye irritation.  |
| Symptoms/effects after ingestion    | : May be harmful if swallowed.   |

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                              |   |
|------------------------------|---|
| Suitable extinguishing media | : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ). |
|------------------------------|---|

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

|  |   |
|--|---|
| Explosion hazard                                 | : Contains gas under pressure; may explode if heated. |
| Hazardous decomposition products in case of fire | : Carbon dioxide. Carbon monoxide.                    |

#### 5.3. Advice for firefighters

|                           |  |
|---------------------------|--|
| Firefighting instructions | : Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers. Fight fire with normal precautions from a reasonable distance. |
|---------------------------|--|

### SECTION 6: Accidental release measures

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

|                  |  |
|------------------|--|
| General measures | : Avoid contact with skin and eyes. No flames, no sparks. Eliminate all sources of ignition. No open flames. No smoking. |
|------------------|--|

No additional information available

#### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |                     |
|-------------------------|---------------------|
| For containment         | : Collect spillage. |
| Methods for cleaning up | : Collect spillage. |

#### 6.4. Reference to other sections

No additional information available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wear personal protective equipment.

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

- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Special rules on packaging : Keep only in original container.

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

Adhesives, Sealants.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

| PROPANE (74-98-6)                              |   |
|--|---|
| <b>Belgium - Occupational Exposure Limits</b>  |   |
| Local name                                     | Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) # Alifatische koolwaterstoffen in gas-vorm: Alkanen (C1-C3)  |
| OEL TWA  | 1000 ppm  |
| Regulatory reference                           | Koninklijk besluit/Arrêté royal 11/05/2021  |
| <b>Bulgaria - Occupational Exposure Limits</b> |   |
| Local name                                     | Пропан  |
| OEL TWA  | 1800 mg/m <sup>3</sup>  |
| Regulatory reference                           | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.) |
| <b>Denmark - Occupational Exposure Limits</b>  |   |
| Local name                                     | Propan (Flaskegas)  |
| OEL TWA  | 1800 mg/m <sup>3</sup><br>1000 ppm  |
| Regulatory reference                           | BEK nr 202 af 21/02/2023  |
| <b>Estonia - Occupational Exposure Limits</b>  |   |
| Local name                                     | Propaan   |
| OEL TWA  | 1800 mg/m <sup>3</sup><br>1000 ppm  |
| Regulatory reference                           | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)   |
| <b>Finland - Occupational Exposure Limits</b>  |   |
| Local name                                     | Propaani  |
| HTP (OEL TWA)                                  | 1500 mg/m <sup>3</sup><br>800 ppm   |

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| <b>PROPANE (74-98-6)</b>                                 |  |
|--|--|
| HTP (OEL STEL)   | 2000 mg/m <sup>3</sup>   |
|  | 1100 ppm   |
| Remark   | Happea syrjäyttämällä tukahduttavat kaasut.  |
| Regulatory reference                                     | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)  |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |  |
| Local name   | Propan   |
| AGW (OEL TWA)  | 1800 mg/m <sup>3</sup>   |
|  | 1000 ppm   |
| Peak exposure limitation factor                          | 4(II)  |
| Remark   | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission)   |
| Regulatory reference                                     | TRGS900  |
| <b>Greece - Occupational Exposure Limits</b>             |  |
| Local name   | Προπάνιο   |
| OEL TWA  | 1800 mg/m <sup>3</sup>   |
|  | 1000 ppm   |
| Regulatory reference                                     | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους  |
| <b>Ireland - Occupational Exposure Limits</b>            |  |
| Local name   | Aliphatic hydrocarbon gases Alkanes (C1-C3): Propane   |
| Remark   | Asphx. (Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants) |
| Regulatory reference                                     | Chemical Agents Code of Practice 2021  |
| <b>Latvia - Occupational Exposure Limits</b>             |  |
| Local name   | Propāns  |
| OEL TWA  | 1800 mg/m <sup>3</sup>   |
|  | 1000 ppm   |
| Regulatory reference                                     | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2015. gada 7. aprīlī noteikumiem Nr. 163)  |
| <b>Poland - Occupational Exposure Limits</b>             |  |
| Local name   | Propan   |
| NDS (OEL TWA)  | 1800 mg/m <sup>3</sup>   |
| Regulatory reference                                     | Dz. U. 2018 poz. 1286 wraz z późn. zm.   |
| <b>Romania - Occupational Exposure Limits</b>            |  |
| Local name   | Propan   |
| OEL TWA  | 1400 mg/m <sup>3</sup>   |
|  | 778 ppm  |
| OEL STEL   | 1800 mg/m <sup>3</sup>   |
|  | 1000 ppm   |
| Regulatory reference                                     | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)  |

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| <b>PROPANE (74-98-6)</b>                          |   |
|---|---|
| <b>Slovenia - Occupational Exposure Limits</b>    |   |
| Local name  | propan  |
| OEL TWA   | 1800 mg/m <sup>3</sup>  |
|   | 1000 ppm  |
| OEL STEL  | 7200 mg/m <sup>3</sup>  |
|   | 4000 ppm  |
| Regulatory reference                              | Uradni list RS, št. 72/2021 z dne 11.5.2021   |
| <b>Spain - Occupational Exposure Limits</b>       |   |
| Local name  | Propano   |
| VLA-ED (OEL TWA)                                  | 1000 ppm Hidrocarburos alifáticos alcanos (C1 – C4) y sus mezclas, gases (Butano; Etano; Metano; Propano) |
| Regulatory reference                              | Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT                             |
| <b>Iceland - Occupational Exposure Limits</b>     |   |
| Local name  | Própan (flöskugas)  |
| OEL TWA   | 1800 mg/m <sup>3</sup>  |
|   | 1000 ppm  |
| Regulatory reference                              | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)                 |
| <b>Norway - Occupational Exposure Limits</b>      |   |
| Local name  | Propan  |
| Grenseverdi (OEL TWA)                             | 900 mg/m <sup>3</sup>   |
|   | 500 ppm   |
| Regulatory reference                              | FOR-2021-06-28-2248   |
| <b>Switzerland - Occupational Exposure Limits</b> |   |
| Local name  | Propane / Propan  |
| MAK (OEL TWA)                                     | 1800 mg/m <sup>3</sup>  |
|   | 1000 ppm  |
| KZGW (OEL STEL)                                   | 7200 mg/m <sup>3</sup>  |
|   | 4000 ppm  |
| Critical toxicity                                 | Formel / Formal   |
| Remark  | NIOSH   |
| Regulatory reference                              | www.suva.ch, 01.01.2023   |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |   |
| Local name  | Propane   |
| Remark (ACGIH)                                    | TLV® Basis: Simple Asphyxiant   |
| Regulatory reference                              | ACGIH 2023  |
| <b>BUTANE (106-97-8)</b>                          |   |
| <b>Belgium - Occupational Exposure Limits</b>     |   |
| Local name  | Butane, tous isomères: n-butane # Butaan, alle isomeren: n-butaan   |

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| <b>BUTANE (106-97-8)</b>                                 |   |
|--|---|
| OEL STEL   | 2370 mg/m <sup>3</sup>  |
|  | 980 ppm   |
| Regulatory reference                                     | Koninklijk besluit/Arrêté royal 11/05/2021  |
| <b>Bulgaria - Occupational Exposure Limits</b>           |   |
| Local name   | n-Бутан   |
| OEL TWA  | 1900 mg/m <sup>3</sup>  |
| Regulatory reference                                     | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.) |
| <b>Denmark - Occupational Exposure Limits</b>            |   |
| Local name   | n-Butan   |
| OEL TWA  | 1200 mg/m <sup>3</sup>  |
|  | 500 ppm   |
| Regulatory reference                                     | BEK nr 202 af 21/02/2023  |
| <b>Estonia - Occupational Exposure Limits</b>            |   |
| Local name   | n-butään  |
| OEL TWA  | 1500 mg/m <sup>3</sup>  |
|  | 800 ppm   |
| Regulatory reference                                     | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)   |
| <b>Finland - Occupational Exposure Limits</b>            |   |
| Local name   | n-Butaani   |
| HTP (OEL TWA)  | 1900 mg/m <sup>3</sup>  |
|  | 800 ppm   |
| HTP (OEL STEL)   | 2400 mg/m <sup>3</sup>  |
|  | 1000 ppm  |
| Remark   | Happea syrjäyttämällä tukahduttavat kaasut.   |
| Regulatory reference                                     | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)   |
| <b>France - Occupational Exposure Limits</b>             |   |
| Local name   | n-Butane  |
| VME (OEL TWA)  | 1900 mg/m <sup>3</sup>  |
|  | 800 ppm   |
| Remark   | Valeurs recommandées/admises  |
| Regulatory reference                                     | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)  |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |   |
| Local name   | Butan   |
| AGW (OEL TWA)  | 2400 mg/m <sup>3</sup>  |
|  | 1000 ppm  |
| Peak exposure limitation factor                          | 4(II)   |
| Remark   | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission)  |

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| <b>BUTANE (106-97-8)</b>                       |   |
|--|---|
| Regulatory reference                           | TRGS900   |
| <b>Greece - Occupational Exposure Limits</b>   |   |
| Local name                                     | Βουτάνιο  |
| OEL TWA  | 2350 mg/m <sup>3</sup><br>1000 ppm  |
| Regulatory reference                           | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους |
| <b>Hungary - Occupational Exposure Limits</b>  |   |
| Local name                                     | n-BUTÁN   |
| AK (OEL TWA)                                   | 2350 mg/m <sup>3</sup>  |
| CK (OEL STEL)                                  | 9400 mg/m <sup>3</sup>  |
| Remark   | N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok)   |
| Regulatory reference                           | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről        |
| <b>Ireland - Occupational Exposure Limits</b>  |   |
| Local name                                     | Butane, all isomers: Butane   |
| OEL STEL                                       | 1000 ppm  |
| Regulatory reference                           | Chemical Agents Code of Practice 2021   |
| <b>Latvia - Occupational Exposure Limits</b>   |   |
| Local name                                     | Butāns (kas satur vairāk nekā 0,1 % butadiēna)  |
| OEL TWA  | 300 mg/m <sup>3</sup>   |
| Remark   | Carc. 1A; Muta. 1B  |
| Regulatory reference                           | Ministru kabineta 2008. gada 29. septembra noteikumi Nr. 803 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 10).    |
| <b>Poland - Occupational Exposure Limits</b>   |   |
| Local name                                     | Butan (n-butan)   |
| NDS (OEL TWA)                                  | 1900 mg/m <sup>3</sup>  |
| NDSch (OEL STEL)                               | 3000 mg/m <sup>3</sup>  |
| Regulatory reference                           | Dz. U. 2018 poz. 1286 wraz z późn. zm.  |
| <b>Portugal - Occupational Exposure Limits</b> |   |
| Local name                                     | Butano, todos os isómeros   |
| OEL STEL                                       | 1000 ppm  |
| Regulatory reference                           | Norma Portuguesa NP 1796:2014   |
| <b>Slovakia - Occupational Exposure Limits</b> |   |
| Local name                                     | Bután s obsahom ≥ 0,1% butadiénu (n-bután)  |
| NPHV (OEL TWA)                                 | 2400 mg/m <sup>3</sup> (TSH)<br>1000 ppm (TSH)  |
| Remark   | Kategória karcinogénov 1A – Dokázaný karcinogén pre ľudí  |
| Regulatory reference                           | Nariadenie vlády č. 356/2006 Z. z. (235/2020 Z. z.)   |



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| <b>BUTANE (106-97-8)</b>                             |  |
|--|--|
| <b>Slovenia - Occupational Exposure Limits</b>       |  |
| Local name   | butan  |
| OEL TWA  | 2400 mg/m <sup>3</sup>   |
|  | 1000 ppm   |
| OEL STEL   | 9600 mg/m <sup>3</sup>   |
|  | 4000 ppm   |
| Regulatory reference                                 | Uradni list RS, št. 72/2021 z dne 11.5.2021  |
| <b>Spain - Occupational Exposure Limits</b>          |  |
| Local name   | Butano   |
| VLA-ED (OEL TWA)                                     | 1000 ppm Hidrocarburos alifáticos alcanos (C1 – C4) y sus mezclas, gases (Butano; Etano; Metano; Propano)                          |
| Regulatory reference                                 | Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT  |
| <b>United Kingdom - Occupational Exposure Limits</b> |  |
| Local name   | Butane   |
| WEL TWA (OEL TWA)                                    | 1450 mg/m <sup>3</sup>   |
|  | 600 ppm  |
| WEL STEL (OEL STEL)                                  | 1810 mg/m <sup>3</sup>   |
|  | 750 ppm  |
| Remark   | Carc (Capable of causing cancer and/or heritable genetic damage, only applies if Butane contains more than 0.1% of buta-1,3-diene) |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE  |
| <b>Iceland - Occupational Exposure Limits</b>        |  |
| Local name   | n-Bútan  |
| OEL TWA  | 1200 mg/m <sup>3</sup>   |
|  | 500 ppm  |
| Regulatory reference                                 | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)  |
| <b>Norway - Occupational Exposure Limits</b>         |  |
| Local name   | Butan  |
| Grenseverdi (OEL TWA)                                | 600 mg/m <sup>3</sup>  |
|  | 250 ppm  |
| Regulatory reference                                 | FOR-2021-06-28-2248  |
| <b>Switzerland - Occupational Exposure Limits</b>    |  |
| Local name   | n-Butane / n-Butan   |
| MAK (OEL TWA)  | 1900 mg/m <sup>3</sup>   |
|  | 800 ppm  |
| KZGW (OEL STEL)                                      | 7600 mg/m <sup>3</sup>   |
|  | 3200 ppm   |
| Critical toxicity                                    | SNC / ZNS  |
| Regulatory reference                                 | www.suva.ch, 01.01.2023  |

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| <b>BUTANE (106-97-8)</b>                                 |  |
|--|--|
| <b>USA - ACGIH - Occupational Exposure Limits</b>        |  |
| Local name   | Butane   |
| ACGIH OEL STEL   | 1000 ppm (EX - Explosion hazard)   |
| Remark (ACGIH)   | TLV® Basis: CNS impair   |
| Regulatory reference                                     | ACGIH 2023   |
| <b>HEPTANE (142-82-5)</b>                                |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>        |  |
| Local name   | Heptane, isomers (n-Heptane)   |
| ACGIH OEL TWA  | 400 ppm  |
| ACGIH OEL STEL   | 500 ppm  |
| Remark (ACGIH)   | TLV® Basis: CNS impair; URT irr  |
| Regulatory reference                                     | ACGIH 2023   |
| <b>ISOBUTANE (75-28-5)</b>                               |  |
| <b>Belgium - Occupational Exposure Limits</b>            |  |
| Local name   | Butane, tous isomères: iso-butane # Butaan, alle isomeren: iso-butaan                            |
| OEL STEL   | 2370 mg/m <sup>3</sup><br>980 ppm  |
| Regulatory reference                                     | Koninklijk besluit/Arrêté royal 11/05/2021   |
| <b>Estonia - Occupational Exposure Limits</b>            |  |
| Local name   | Isobutaan (2-metüülpropaan)  |
| OEL TWA  | 1900 mg/m <sup>3</sup><br>800 ppm  |
| Regulatory reference                                     | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)                      |
| <b>Finland - Occupational Exposure Limits</b>            |  |
| Local name   | i-Butaani (2-Metyylipropaani)  |
| HTP (OEL TWA)  | 1900 mg/m <sup>3</sup><br>800 ppm  |
| HTP (OEL STEL)   | 2400 mg/m <sup>3</sup><br>1000 ppm   |
| Remark   | Happea syrjäyttämällä tukahduttavat kaasut.  |
| Regulatory reference                                     | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)  |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |  |
| Local name   | Isobutan   |
| AGW (OEL TWA)  | 2400 mg/m <sup>3</sup><br>1000 ppm   |
| Peak exposure limitation factor                          | 4(II)  |
| Remark   | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission) |
| Regulatory reference                                     | TRGS900  |

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| <b>ISOBUTANE (75-28-5)</b>                        |  |
|---|--|
| <b>Ireland - Occupational Exposure Limits</b>     |  |
| Local name  | Butane, all isomers: Isobutane                           |
| OEL STEL  | 1000 ppm   |
| Regulatory reference                              | Chemical Agents Code of Practice 2021                    |
| <b>Portugal - Occupational Exposure Limits</b>    |  |
| Local name  | Butano, todos os isómeros                                |
| OEL STEL  | 1000 ppm   |
| Regulatory reference                              | Norma Portuguesa NP 1796:2014                            |
| <b>Slovakia - Occupational Exposure Limits</b>    |  |
| Local name  | Bután s obsahom $\geq 0,1\%$ butadiénu (izo-bután)       |
| NPHV (OEL TWA)                                    | 2400 mg/m <sup>3</sup> (TSH)                             |
|   | 1000 ppm (TSH)   |
| Remark  | Kategória karcinogénov 1A – Dokázaný karcinogén pre ľudí |
| Regulatory reference                              | Nariadenie vlády č. 356/2006 Z. z. (235/2020 Z. z.)      |
| <b>Slovenia - Occupational Exposure Limits</b>    |  |
| Local name  | izobutan   |
| OEL TWA   | 2400 mg/m <sup>3</sup>                                   |
|   | 1000 ppm   |
| OEL STEL  | 9600 mg/m <sup>3</sup>                                   |
|   | 4000 ppm   |
| Regulatory reference                              | Uradni list RS, št. 72/2021 z dne 11.5.2021              |
| <b>Switzerland - Occupational Exposure Limits</b> |  |
| Local name  | iso-Butane / iso-Butan                                   |
| MAK (OEL TWA)                                     | 1900 mg/m <sup>3</sup>                                   |
|   | 800 ppm  |
| KZGW (OEL STEL)                                   | 7600 mg/m <sup>3</sup>                                   |
|   | 3200 ppm   |
| Critical toxicity                                 | SNC / ZNS  |
| Regulatory reference                              | www.suva.ch, 01.01.2023                                  |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |  |
| Local name  | Isobutane  |
| ACGIH OEL STEL                                    | 1000 ppm (EX - Explosion hazard)                         |
| Remark (ACGIH)                                    | TLV® Basis: CNS impair                                   |
| Regulatory reference                              | ACGIH 2023   |

## 8.2. Exposure controls

No additional information available

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### SECTION 9: Physical and chemical properties

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

|   |                         |
|---|-------------------------|
| Physical state                                  | : Liquid                |
| Colour  | : Colourless.           |
| Odour   | : Characteristic odour. |
| Odour threshold                                 | : Not available         |
| Melting point                                   | : No data available.    |
| Freezing point                                  | : Not available         |
| Boiling point                                   | : -40 °C                |
| Flammability                                    | : Not available         |
| Lower explosion limit                           | : Not available         |
| Upper explosion limit                           | : Not available         |
| Flash point                                     | : -60 °C                |
| Auto-ignition temperature                       | : >400                  |
| Decomposition temperature                       | : Not available         |
| pH  | : No data available.    |
| Viscosity, kinematic                            | : Not available         |
| Solubility                                      | : Not available         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available         |
| Vapour pressure                                 | : Not available         |
| Vapour pressure at 50°C                         | : Not available         |
| Density   | : Not available         |
| Relative density                                | : No data available.    |
| Relative vapour density at 20°C                 | : No data available.    |
| Particle characteristics                        | : Not applicable        |

#### 9.2. Other information

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

% of flammable ingredients : 90 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

No additional information available

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

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|                                   |   |
|-----------------------------------|---|
| Acute toxicity (dermal)           | : Not classified                                    |
| Acute toxicity (inhalation)       | : Not classified                                    |
| Skin corrosion/irritation         | : Causes skin irritation.<br>pH: No data available. |
| Serious eye damage/irritation     | : Not classified<br>pH: No data available.          |
| Respiratory or skin sensitisation | : Not classified                                    |
| Germ cell mutagenicity            | : Not classified                                    |
| Carcinogenicity                   | : Not classified                                    |

### N,N-DIMETHYL-P-TOLUIDINE \* (99-97-8)

|            |                                      |
|------------|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |
|------------|--------------------------------------|

|                       |                                      |
|-----------------------|--------------------------------------|
| Reproductive toxicity | : Not classified                     |
| STOT-single exposure  | : May cause drowsiness or dizziness. |

### HEPTANE (142-82-5)

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

|                        |                  |
|------------------------|------------------|
| STOT-repeated exposure | : Not classified |
|------------------------|------------------|

### N,N-DIMETHYL-P-TOLUIDINE \* (99-97-8)

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

|                   |                  |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

### MITREBOND ACTIVATOR aerosol

|           |         |
|-----------|---------|
| Vaporizer | Aerosol |
|-----------|---------|

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| Hazardous to the aquatic environment, short-term (acute)  | : Very toxic to aquatic life.                      |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects. |

### 12.2. Persistence and degradability

#### MITREBOND ACTIVATOR aerosol

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### PROPANE (74-98-6)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### BUTANE (106-97-8)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### N,N-DIMETHYL-P-TOLUIDINE \* (99-97-8)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### HEPTANE (142-82-5)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

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### ISOBUTANE (75-28-5)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

No additional information available

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR   | IMDG  | IATA  | ADN  | RID  |
|---|---|---|--|--|
| <b>14.1. UN number or ID number</b>                   |   |   |  |  |
| UN 1950   | UN 1950   | UN 1950   | UN 1950  | UN 1950  |
| <b>14.2. UN proper shipping name</b>                  |   |   |  |  |
| AEROSOLS  | AEROSOLS  | Aerosols, flammable   | AEROSOLS   | AEROSOLS   |
| <b>Transport document description</b>                 |   |   |  |  |
| UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS | UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS |
| <b>14.3. Transport hazard class(es)</b>               |   |   |  |  |
| 2.1   | 2.1   | 2.1   | 2.1  | 2.1  |
|   |   |   |  |  |
| <b>14.4. Packing group</b>                            |   |   |  |  |
| Not applicable  | Not applicable  | Not applicable  | Not applicable                                   | Not applicable                                   |

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| ADR                                    | IMDG  | IATA                               | ADN                                | RID                                |
|--|---|------------------------------------|------------------------------------|------------------------------------|
| <b>14.5. Environmental hazards</b>     |   |                                    |                                    |                                    |
| Dangerous for the environment: Yes     | Dangerous for the environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-D<br>EmS-No. (Spillage): S-U | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available |   |                                    |                                    |                                    |

### 14.6. Special precautions for user

#### Overland transport

|   |                      |
|---|----------------------|
| Classification code (ADR)   | : 5F                 |
| Special provisions (ADR)  | : 190, 327, 344, 625 |
| Limited quantities (ADR)  | : 1I                 |
| Excepted quantities (ADR)   | : E0                 |
| Packing instructions (ADR)  | : P207, LP200        |
| Special packing provisions (ADR)  | : PP87, RR6, L2      |
| Mixed packing provisions (ADR)  | : MP9                |
| Transport category (ADR)  | : 2                  |
| Special provisions for carriage - Packages (ADR)                        | : V14                |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV9, CV12          |
| Special provisions for carriage - Operation (ADR)                       | : S2                 |
| Tunnel restriction code (ADR)   | : D                  |

#### Transport by sea

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Special provisions (IMDG)         | : 63, 190, 277, 327, 344, 381, 959 |
| Limited quantities (IMDG)         | : SP277                            |
| Excepted quantities (IMDG)        | : E0                               |
| Packing instructions (IMDG)       | : P207, LP200                      |
| Special packing provisions (IMDG) | : PP87, L2                         |
| Stowage category (IMDG)           | : None                             |
| Stowage and handling (IMDG)       | : SW1, SW22                        |
| Segregation (IMDG)                | : SG69                             |

#### Air transport

|  |                    |
|--|--------------------|
| PCA Excepted quantities (IATA)               | : E0               |
| PCA Limited quantities (IATA)                | : Y203             |
| PCA limited quantity max net quantity (IATA) | : 30kgG            |
| PCA packing instructions (IATA)              | : 203              |
| PCA max net quantity (IATA)                  | : 75kg             |
| CAO packing instructions (IATA)              | : 203              |
| CAO max net quantity (IATA)                  | : 150kg            |
| Special provisions (IATA)                    | : A145, A167, A802 |
| ERG code (IATA)                              | : 10L              |

#### Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : 5F                 |
| Special provisions (ADN)          | : 190, 327, 344, 625 |
| Limited quantities (ADN)          | : 1 L                |
| Excepted quantities (ADN)         | : E0                 |
| Equipment required (ADN)          | : PP, EX, A          |
| Ventilation (ADN)                 | : VE01, VE04         |
| Number of blue cones/lights (ADN) | : 1                  |

#### Rail transport

|                           |                      |
|---------------------------|----------------------|
| Classification code (RID) | : 5F                 |
| Special provisions (RID)  | : 190, 327, 344, 625 |
| Limited quantities (RID)  | : 1L                 |
| Excepted quantities (RID) | : E0                 |

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|   |                 |
|---|-----------------|
| Packing instructions (RID)  | : P207, LP200   |
| Special packing provisions (RID)  | : PP87, RR6, L2 |
| Mixed packing provisions (RID)  | : MP9           |
| Transport category (RID)  | : 2             |
| Special provisions for carriage – Packages (RID)                        | : W14           |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW9, CW12     |
| Colis express (express parcels) (RID)                                   | : CE2           |
| Hazard identification number (RID)                                      | : 23            |

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

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### National regulations

##### France

| Occupational diseases |   |
|-----------------------|---|
| Code                  | Description   |
| RG 84                 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |



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### Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

- ABM category : Z(1) - non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/bioaccumulative potential/ toxicity or persistence)
- SZW-lijst van kankerverwekkende stoffen : N,N-DIMETHYL-P-TOLUIDINE \* is listed
- SZW-lijst van mutagene stoffen : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

- Class for fire hazard : Class I-1
- Store unit : 1 liter
- Classification remarks : F+ <Flam. Aerosol 1; Aerosol 1>; Emergency management guidelines for the storage of flammable liquids must be followed
- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### Poland

- Polish National Regulations : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).  
The ADR Agreement - Annex to the J. o L. of 26 April 2019 Government Statement of 18 February 2019 on the entry into force of the amendments to Annex A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o L. 2019, item 769)  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

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

|                           |  |
|---------------------------|--|
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3                                    |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3                                    |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3                                      |
| Aquatic Acute 1           | Hazardous to the aquatic environment – Acute Hazard, Category 1        |
| Aquatic Chronic 1         | Hazardous to the aquatic environment – Chronic Hazard, Category 1      |
| Aquatic Chronic 3         | Hazardous to the aquatic environment – Chronic Hazard, Category 3      |
| Asp. Tox. 1               | Aspiration hazard, Category 1  |
| Carc. 2                   | Carcinogenicity, Category 2  |
| Flam. Gas 1               | Flammable gases, Category 1  |
| Flam. Liq. 2              | Flammable liquids, Category 2  |
| H220                      | Extremely flammable gas.   |
| H222                      | Extremely flammable aerosol.   |
| H225                      | Highly flammable liquid and vapour.                                    |
| H229                      | Pressurised container: May burst if heated.                            |
| H301                      | Toxic if swallowed.  |
| H304                      | May be fatal if swallowed and enters airways.                          |
| H311                      | Toxic in contact with skin.  |
| H315                      | Causes skin irritation.  |
| H331                      | Toxic if inhaled.  |
| H336                      | May cause drowsiness or dizziness.                                     |
| H351                      | Suspected of causing cancer.   |
| H373                      | May cause damage to organs through prolonged or repeated exposure.     |
| H400                      | Very toxic to aquatic life.  |
| H410                      | Very toxic to aquatic life with long lasting effects.                  |
| H411                      | Toxic to aquatic life with long lasting effects.                       |
| H412                      | Harmful to aquatic life with long lasting effects.                     |
| Press. Gas                | Gases under pressure   |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2                                  |
| STOT RE 2                 | Specific target organ toxicity – Repeated exposure, Category 2         |
| STOT SE 3                 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.