

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

### 1.1. Product identifier

Product form : Mixture  
Product name : ImmEdge® Hydrophobic Barrier Pen  
Product code : H-4000  
Product group : Blend

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals

#### 1.2.2. Uses advised against

No additional information available

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

#### Manufacturer

Vector Laboratories, Inc.  
6737 Mowry Ave  
Newark, CA 94560  
U.S.A  
T (650) 697-3600, F (650) 697-0339  
[customerservice@vectorlabs.com](mailto:customerservice@vectorlabs.com)

### 1.4. Emergency telephone number

Emergency number : US only (800) 227-6666 or outside of the US +1 (650) 697-3600 (7:15 AM - 5:00 PM PST)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

|                                                                                            |        |
|--------------------------------------------------------------------------------------------|--------|
| Flammable liquids, Category 2                                                              | H225   |
| Skin corrosion/irritation, Category 2                                                      | H315   |
| Serious eye damage/eye irritation, Category 2                                              | H319   |
| Reproductive toxicity, Category 1B                                                         | H360FD |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis                     | H336   |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | H335   |
| Specific target organ toxicity – Repeated exposure, Category 2                             | H373   |

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

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

Highly flammable liquid and vapour. May damage fertility. May damage the unborn child. (inhalation). May cause damage to organs (liver, central nervous system) through prolonged or repeated exposure (inhalation). May cause drowsiness or dizziness. May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.

### 2.2. Label elements

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

Hazard pictograms (CLP)



# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

|                                | GHS02                                                                                                                                                                                                                                                                                                                                                                                                                          | GHS07 | GHS08 |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| Signal word (CLP)              | : Danger                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |
| Contains                       | : 1-bromopropane; n-propyl bromide                                                                                                                                                                                                                                                                                                                                                                                             |       |       |
| Hazard statements (CLP)        | : H225 - Highly flammable liquid and vapour.<br>H315 - Causes skin irritation.<br>H319 - Causes serious eye irritation.<br>H335 - May cause respiratory irritation.<br>H336 - May cause drowsiness or dizziness.<br>H360FD - May damage fertility. May damage the unborn child. inhalation.<br>H373 - May cause damage to organs (liver, central nervous system) through prolonged or repeated exposure (inhalation).          |       |       |
| Precautionary statements (CLP) | : P201 - Obtain special instructions before use.<br>P202 - Do not handle until all safety precautions have been read and understood.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground and bond container and receiving equipment.<br>P241 - Use explosion-proof electrical, lighting, ventilating equipment. |       |       |

## 2.3. Other hazards

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

| Component                                   |                                                                                                                                                                                 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-bromopropane; n-propyl bromide (106-94-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, 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 is 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 %

| Component                                   |                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-bromopropane; n-propyl bromide (106-94-5) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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 |

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                                                                                                                                                                                                                                   | Product identifier                                                   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1-bromopropane; n-propyl bromide<br>substance listed as REACH Candidate (1-bromopropane (n-propyl bromide))<br>substance listed in REACH Annex XIV (1-Bromopropane (n-propyl bromide))<br>substance with national workplace exposure limit(s) (BE, ES, FI, IE, PL, PT) | CAS-No.: 106-94-5<br>EC-No.: 203-445-0<br>EC Index-No.: 602-019-00-5 | > 90    | Flam. Liq. 2, H225<br>Repr. 1B, H360FD<br>STOT RE 2, H373<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>STOT SE 3, H336 |
| Paraffin wax ; Paraffin waxes and Hydrocarbon waxes<br>substance with national workplace exposure limit(s) (BE, DK, EE, ES, FI, FR, GB, GR, HR, IE, PL, PT, RO, SK, CH)                                                                                                | CAS-No.: 8002-74-2<br>EC-No.: 232-315-6                              | 0.1 – 1 | Not classified                                                                                                                               |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

| Name                                                                                                                                                                                             | Product identifier                                                  | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|-----------------------------------------------------------------|
| acetic acid ... %<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, CH) | CAS-No.: 64-19-7<br>EC-No.: 200-580-7<br>EC Index-No.: 607-002-00-6 | 0.047 | Flam. Liq. 3, H226<br>Skin Corr. 1A, H314                       |

| Specific concentration limits: |                                                                     |                                                                                                                                                  |
|--------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                           | Product identifier                                                  | Specific concentration limits                                                                                                                    |
| acetic acid ... %              | CAS-No.: 64-19-7<br>EC-No.: 200-580-7<br>EC Index-No.: 607-002-00-6 | (10 ≤ C < 25) Skin Irrit. 2; H315<br>(10 ≤ C < 25) Eye Irrit. 2; H319<br>(25 ≤ C < 90) Skin Corr. 1B; H314<br>(90 ≤ C ≤ 100) Skin Corr. 1A; H314 |

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

## 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. Call a poison center or a doctor if you feel unwell.                                                            |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.                                         |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                                                                                                                           |

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

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| Symptoms/effects                    | : May cause drowsiness or dizziness.        |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.         |
| Symptoms/effects after skin contact | : Irritation.                               |
| Symptoms/effects after eye contact  | : Eye irritation.                           |
| Symptoms/effects after ingestion    | : None under normal conditions.             |
| Chronic symptoms                    | : May damage fertility or the unborn child. |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|                                                  |                                       |
|--------------------------------------------------|---------------------------------------|
| Fire hazard                                      | : Highly flammable liquid and vapour. |
| Explosion hazard                                 | : No direct explosion hazard.         |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.        |

### 5.3. Advice for firefighters

|                           |                                                                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe mist, spray, vapours.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, spray, vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.  
Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.  
Packaging materials : Store always product in container of same material as original container.  
Storage class (LGK, TRGS 510) : LGK 3 - Flammable liquids  
Joint storage table :

|          |         |          |          |           |
|----------|---------|----------|----------|-----------|
| LGK 1    | LGK 2A  | LGK 2B   | LGK 3    | LGK 4.1A  |
| LGK 4.1B | LGK 4.2 | LGK 4.3  | LGK 5.1A | LGK 5.1B  |
| LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C  |
| LGK 6.1D | LGK 6.2 | LGK 7    | LGK 8A   | LGK 8B    |
| LGK 10   | LGK 11  | LGK 12   | LGK 13   | LGK 10-13 |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

|                                               |                                                                                                              |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Joint storage not permitted for               | : LGK 1, LGK 2A, LGK 4.1A, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1C, LGK 5.2, LGK 6.1B, LGK 6.2, LGK 7 |
| Joint storage with restrictions permitted for | : LGK 5.1B, LGK 6.1D, LGK 11, LGK 10-13                                                                      |
| Joint storage permitted for                   | : LGK 2B, LGK 3, LGK 6.1A, LGK 6.1C, LGK 8A, LGK 8B, LGK 10, LGK 12, LGK 13                                  |

## 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

| 1-bromopropane; n-propyl bromide (106-94-5) |                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------|
| Austria - Occupational Exposure Limits      |                                                                                                      |
| Local name                                  | 1-Bromopropan                                                                                        |
| Remark                                      | H. Fortpflanzungsgefährdend: F, D                                                                    |
| Regulatory reference                        | BGBI. II Nr. 156/2021                                                                                |
| Belgium - Occupational Exposure Limits      |                                                                                                      |
| Local name                                  | 1-Bromopropane # 1-Broompropaan                                                                      |
| OEL TWA                                     | 0.5 mg/m <sup>3</sup>                                                                                |
|                                             | 0.1 ppm                                                                                              |
| Regulatory reference                        | Koninklijk besluit/Arrêté royal 11/05/2021                                                           |
| Finland - Occupational Exposure Limits      |                                                                                                      |
| Local name                                  | 1-Bromipropaani                                                                                      |
| HTP (OEL TWA)                               | 50 mg/m <sup>3</sup>                                                                                 |
|                                             | 10 ppm                                                                                               |
| HTP (OEL STEL)                              | 250 mg/m <sup>3</sup>                                                                                |
|                                             | 50 ppm                                                                                               |
| Regulatory reference                        | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)                                                      |
| Ireland - Occupational Exposure Limits      |                                                                                                      |
| Local name                                  | 1-Bromopropane (n-Propyl bromide)                                                                    |
| OEL TWA                                     | 0.1 ppm                                                                                              |
| Regulatory reference                        | Chemical Agents Code of Practice 2021                                                                |
| Poland - Occupational Exposure Limits       |                                                                                                      |
| Local name                                  | 1-Bromopropan                                                                                        |
| NDS (OEL TWA)                               | 42 mg/m <sup>3</sup>                                                                                 |
| Regulatory reference                        | Dz. U. 2018 poz. 1286                                                                                |
| Portugal - Occupational Exposure Limits     |                                                                                                      |
| Local name                                  | 1-Bromopropano                                                                                       |
| OEL TWA                                     | 0.1 ppm                                                                                              |
| Remark                                      | A3 (Agente carcinogénico confirmado nos animais de laboratório con relevância desconhecida no Homem) |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

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|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1-bromopropane; n-propyl bromide (106-94-5)</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Regulatory reference                                                   | Norma Portuguesa NP 1796:2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Spain - Occupational Exposure Limits</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                                             | 1-Bromopropano                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VLA-ED (OEL TWA)                                                       | 10 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Remark                                                                 | TR1B (Cuando las pruebas utilizadas para la clasificación procedan principalmente de datos en animales), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido). |
| Regulatory reference                                                   | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>USA - ACGIH - Occupational Exposure Limits</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                                             | 1-Bromopropane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ACGIH OEL TWA                                                          | 0.1 ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Remark (ACGIH)                                                         | TLV® Basis: CNS impair, peripheral neuropathy; hematological eff; developmental & repro toxicity (male & female). Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Regulatory reference                                                   | ACGIH 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Paraffin wax ; Paraffin waxes and Hydrocarbon waxes (8002-74-2)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Belgium - Occupational Exposure Limits</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                                             | Paraffine (cire de) (fumées) # Paraffinewas (rook)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| OEL TWA                                                                | 2 mg/m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Regulatory reference                                                   | Koninklijk besluit/Arrêté royal 11/05/2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Croatia - Occupational Exposure Limits</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                                             | Parafinski vosak, dim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| GVI (OEL TWA)                                                          | 2 mg/m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| KGVI (OEL STEL)                                                        | 6 mg/m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Regulatory reference                                                   | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Denmark - Occupational Exposure Limits</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                                             | Paraffinrøg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OEL TWA                                                                | 2 mg/m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Regulatory reference                                                   | BEK nr 202 af 21/02/2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Estonia - Occupational Exposure Limits</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Local name                                                             | Parafiin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| OEL TWA                                                                | 2 mg/m³ aurud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 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                                                             | Parafiinihuurut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

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|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Paraffin wax ; Paraffin waxes and Hydrocarbon waxes (8002-74-2)</b> |                                                                                                                                               |
| HTP (OEL TWA)                                                          | 1 mg/m <sup>3</sup>                                                                                                                           |
| Regulatory reference                                                   | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)                                                                                               |
| <b>France - Occupational Exposure Limits</b>                           |                                                                                                                                               |
| Local name                                                             | Paraffine (cire de), fumé                                                                                                                     |
| VME (OEL TWA)                                                          | 2 mg/m <sup>3</sup>                                                                                                                           |
| Remark                                                                 | Valeurs recommandées/admises                                                                                                                  |
| Regulatory reference                                                   | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)                                                                                  |
| <b>Greece - Occupational Exposure Limits</b>                           |                                                                                                                                               |
| Local name                                                             | Παραφινικός κηρός (καπνός)                                                                                                                    |
| OEL TWA                                                                | 2 mg/m <sup>3</sup>                                                                                                                           |
| OEL STEL                                                               | 6 mg/m <sup>3</sup>                                                                                                                           |
| 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                                                             | Paraffin wax, fume                                                                                                                            |
| OEL TWA                                                                | 2 mg/m <sup>3</sup>                                                                                                                           |
| OEL STEL                                                               | 6 mg/m <sup>3</sup>                                                                                                                           |
| Regulatory reference                                                   | Chemical Agents Code of Practice 2021                                                                                                         |
| <b>Poland - Occupational Exposure Limits</b>                           |                                                                                                                                               |
| Local name                                                             | Parafina stała                                                                                                                                |
| NDS (OEL TWA)                                                          | 2 mg/m <sup>3</sup> frakcja wdychalna                                                                                                         |
| Remark                                                                 | Frakcja wdychalna – frakcja aerozolu wnikaająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. |
| Regulatory reference                                                   | Dz. U. 2018 poz. 1286 wraz z późn. zm.                                                                                                        |
| <b>Portugal - Occupational Exposure Limits</b>                         |                                                                                                                                               |
| Local name                                                             | Parafina (cera), fumos                                                                                                                        |
| OEL TWA                                                                | 2 mg/m <sup>3</sup>                                                                                                                           |
| Regulatory reference                                                   | Norma Portuguesa NP 1796:2014                                                                                                                 |
| <b>Romania - Occupational Exposure Limits</b>                          |                                                                                                                                               |
| Local name                                                             | Parafină                                                                                                                                      |
| OEL TWA                                                                | 2 mg/m <sup>3</sup> (Fumuri)                                                                                                                  |
| OEL STEL                                                               | 6 mg/m <sup>3</sup> (Fumuri)                                                                                                                  |
| Regulatory reference                                                   | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)                                                                                   |
| <b>Slovakia - Occupational Exposure Limits</b>                         |                                                                                                                                               |
| Local name                                                             | Parafín, dymy                                                                                                                                 |
| NPHV (OEL TWA)                                                         | 2 mg/m <sup>3</sup>                                                                                                                           |
| NPHV (OEL STEL)                                                        | 6 mg/m <sup>3</sup>                                                                                                                           |
| Regulatory reference                                                   | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)                                                                                           |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

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|------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>Paraffin wax ; Paraffin waxes and Hydrocarbon waxes (8002-74-2)</b> |                                                                               |
| <b>Spain - Occupational Exposure Limits</b>                            |                                                                               |
| Local name                                                             | Cera de parafina                                                              |
| VLA-ED (OEL TWA)                                                       | 2 mg/m <sup>3</sup> humos                                                     |
| Regulatory reference                                                   | Límites de Exposición Profesional para Agentes Químicos en España 2023. INSHT |
| <b>United Kingdom - Occupational Exposure Limits</b>                   |                                                                               |
| Local name                                                             | Paraffin wax                                                                  |
| WEL TWA (OEL TWA)                                                      | 2 mg/m <sup>3</sup> fume                                                      |
| WEL STEL (OEL STEL)                                                    | 6 mg/m <sup>3</sup> fume                                                      |
| Regulatory reference                                                   | EH40/2005 (Fourth edition, 2020). HSE                                         |
| <b>Switzerland - Occupational Exposure Limits</b>                      |                                                                               |
| Local name                                                             | Paraffine (fumée) / Paraffinrauch                                             |
| MAK (OEL TWA)                                                          | 2 mg/m <sup>3</sup> (a) / (a)                                                 |
| Critical toxicity                                                      | Nausée, VRS / Nausea, OAW                                                     |
| Regulatory reference                                                   | www.suva.ch, 01.01.2023                                                       |
| <b>USA - ACGIH - Occupational Exposure Limits</b>                      |                                                                               |
| Local name                                                             | Paraffin wax fume                                                             |
| ACGIH OEL TWA                                                          | 2 mg/m <sup>3</sup>                                                           |
| Remark (ACGIH)                                                         | TLV® Basis: URT irr; nausea                                                   |
| Regulatory reference                                                   | ACGIH 2023                                                                    |
| <b>acetic acid ... % (64-19-7)</b>                                     |                                                                               |
| <b>Austria - Occupational Exposure Limits</b>                          |                                                                               |
| Local name                                                             | Essigsäure                                                                    |
| MAK (OEL TWA)                                                          | 25 mg/m <sup>3</sup>                                                          |
|                                                                        | 10 ppm                                                                        |
| MAK (OEL STEL)                                                         | 50 mg/m <sup>3</sup> (8x 5(Mow) min)                                          |
|                                                                        | 20 ppm (8x 5(Mow) min)                                                        |
| Regulatory reference                                                   | BGBI. II Nr. 156/2021                                                         |
| <b>Belgium - Occupational Exposure Limits</b>                          |                                                                               |
| Local name                                                             | Acide acétique # Azijnzuur                                                    |
| OEL TWA                                                                | 25 mg/m <sup>3</sup>                                                          |
|                                                                        | 10 ppm                                                                        |
| OEL STEL                                                               | 38 mg/m <sup>3</sup>                                                          |
|                                                                        | 15 ppm                                                                        |
| Regulatory reference                                                   | Koninklijk besluit/Arrêté royal 11/05/2021                                    |
| <b>Bulgaria - Occupational Exposure Limits</b>                         |                                                                               |
| Local name                                                             | Оцетна киселина                                                               |
| OEL TWA                                                                | 25 mg/m <sup>3</sup>                                                          |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

|                                                      |                                                                                                                                                                                   |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>acetic acid ... % (64-19-7)</b>                   |                                                                                                                                                                                   |
|                                                      | 10 ppm                                                                                                                                                                            |
| OEL STEL                                             | 50 mg/m <sup>3</sup>                                                                                                                                                              |
|                                                      | 20 ppm                                                                                                                                                                            |
| Remark                                               | • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)                                                              |
| 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>Croatia - Occupational Exposure Limits</b>        |                                                                                                                                                                                   |
| Local name                                           | Octena kiselina                                                                                                                                                                   |
| GVI (OEL TWA)                                        | 25 mg/m <sup>3</sup>                                                                                                                                                              |
|                                                      | 10 ppm                                                                                                                                                                            |
| KGVI (OEL STEL)                                      | 50 mg/m <sup>3</sup>                                                                                                                                                              |
|                                                      | 20 ppm                                                                                                                                                                            |
| Remark                                               | Direktiva: 2017/164/EU                                                                                                                                                            |
| Regulatory reference                                 | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)                      |
| <b>Cyprus - Occupational Exposure Limits</b>         |                                                                                                                                                                                   |
| Local name                                           | Οξικό οξύ                                                                                                                                                                         |
| OEL TWA                                              | 25 mg/m <sup>3</sup>                                                                                                                                                              |
|                                                      | 10 ppm                                                                                                                                                                            |
| OEL STEL                                             | 50 mg/m <sup>3</sup>                                                                                                                                                              |
|                                                      | 20 ppm                                                                                                                                                                            |
| Regulatory reference                                 | Κανονισμοί του 2019 (Κ.Δ.Π. 16/2019)                                                                                                                                              |
| <b>Czech Republic - Occupational Exposure Limits</b> |                                                                                                                                                                                   |
| Local name                                           | Kyselina octová (Kyselina ethanová)                                                                                                                                               |
| PEL (OEL TWA)                                        | 25 mg/m <sup>3</sup>                                                                                                                                                              |
|                                                      | 10 ppm                                                                                                                                                                            |
| NPK-P (OEL C)                                        | 50 mg/m <sup>3</sup>                                                                                                                                                              |
|                                                      | 20 ppm                                                                                                                                                                            |
| Regulatory reference                                 | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)                                                                                                                             |
| <b>Denmark - Occupational Exposure Limits</b>        |                                                                                                                                                                                   |
| Local name                                           | Eddikesyre (Ethansyre)                                                                                                                                                            |
| OEL TWA                                              | 25 mg/m <sup>3</sup>                                                                                                                                                              |
|                                                      | 10 ppm                                                                                                                                                                            |
| Remark                                               | E (betyder, at stoffet har en EF-grænseværdi)                                                                                                                                     |
| Regulatory reference                                 | BEK nr 2203 af 29. november 2021                                                                                                                                                  |
| <b>Estonia - Occupational Exposure Limits</b>        |                                                                                                                                                                                   |
| Local name                                           | Etaanhape (äädikhape)                                                                                                                                                             |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>acetic acid ... % (64-19-7)</b>                       |                                                                                                                                                                                                                                                                                                                                                                                              |
| OEL TWA                                                  | 25 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
|                                                          | 10 ppm                                                                                                                                                                                                                                                                                                                                                                                       |
| OEL STEL                                                 | 25 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
|                                                          | 10 ppm                                                                                                                                                                                                                                                                                                                                                                                       |
| Regulatory reference                                     | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)                                                                                                                                                                                                                                                                                                                  |
| <b>Finland - Occupational Exposure Limits</b>            |                                                                                                                                                                                                                                                                                                                                                                                              |
| Local name                                               | Etikkahappo                                                                                                                                                                                                                                                                                                                                                                                  |
| HTP (OEL TWA)                                            | 13 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
|                                                          | 5 ppm                                                                                                                                                                                                                                                                                                                                                                                        |
| HTP (OEL STEL)                                           | 25 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
|                                                          | 10 ppm                                                                                                                                                                                                                                                                                                                                                                                       |
| Regulatory reference                                     | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)                                                                                                                                                                                                                                                                                                                                    |
| <b>France - Occupational Exposure Limits</b>             |                                                                                                                                                                                                                                                                                                                                                                                              |
| Local name                                               | Acide acétique                                                                                                                                                                                                                                                                                                                                                                               |
| VME (OEL TWA)                                            | 25 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
|                                                          | 10 ppm                                                                                                                                                                                                                                                                                                                                                                                       |
| VLE (OEL C/STEL)                                         | 50 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
|                                                          | 20 ppm                                                                                                                                                                                                                                                                                                                                                                                       |
| Remark                                                   | Valeurs réglementaires indicatives                                                                                                                                                                                                                                                                                                                                                           |
| Regulatory reference                                     | Circulaire du Ministère du travail (réf.: Arrête du 27 septembre 2019)                                                                                                                                                                                                                                                                                                                       |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |                                                                                                                                                                                                                                                                                                                                                                                              |
| Local name                                               | Essigsäure                                                                                                                                                                                                                                                                                                                                                                                   |
| AGW (OEL TWA)                                            | 25 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
|                                                          | 10 ppm                                                                                                                                                                                                                                                                                                                                                                                       |
| Peak exposure limitation factor                          | 2(I)                                                                                                                                                                                                                                                                                                                                                                                         |
| Remark                                                   | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference                                     | TRGS900                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Greece - Occupational Exposure Limits</b>             |                                                                                                                                                                                                                                                                                                                                                                                              |
| Local name                                               | Οξικό οξύ                                                                                                                                                                                                                                                                                                                                                                                    |
| OEL TWA                                                  | 25 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
|                                                          | 10 ppm                                                                                                                                                                                                                                                                                                                                                                                       |
| OEL STEL                                                 | 37 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
|                                                          | 15 ppm                                                                                                                                                                                                                                                                                                                                                                                       |
| Regulatory reference                                     | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους                                                                                                                                                                                                                                                      |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

|                                                 |                                                                                                                                                                                                                            |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>acetic acid ... % (64-19-7)</b>              |                                                                                                                                                                                                                            |
| <b>Hungary - Occupational Exposure Limits</b>   |                                                                                                                                                                                                                            |
| Local name                                      | ECETSAV                                                                                                                                                                                                                    |
| AK (OEL TWA)                                    | 25 mg/m <sup>3</sup>                                                                                                                                                                                                       |
| CK (OEL STEL)                                   | 50 mg/m <sup>3</sup>                                                                                                                                                                                                       |
| Remark                                          | m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat); EU4 (2017/164 EU irányelvben közölt érték); 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                                      | Acetic acid                                                                                                                                                                                                                |
| OEL TWA                                         | 25 mg/m <sup>3</sup>                                                                                                                                                                                                       |
|                                                 | 10 ppm                                                                                                                                                                                                                     |
| OEL STEL                                        | 50 mg/m <sup>3</sup>                                                                                                                                                                                                       |
|                                                 | 20 ppm                                                                                                                                                                                                                     |
| Remark                                          | IOELV (Indicative Occupational Exposure Limit Values)                                                                                                                                                                      |
| Regulatory reference                            | Chemical Agents Code of Practice 2021                                                                                                                                                                                      |
| <b>Italy - Occupational Exposure Limits</b>     |                                                                                                                                                                                                                            |
| Local name                                      | Acido acetico                                                                                                                                                                                                              |
| OEL TWA                                         | 25 mg/m <sup>3</sup>                                                                                                                                                                                                       |
|                                                 | 10 ppm                                                                                                                                                                                                                     |
| OEL STEL                                        | 50 mg/m <sup>3</sup>                                                                                                                                                                                                       |
|                                                 | 20 ppm                                                                                                                                                                                                                     |
| Regulatory reference                            | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.                                                                                                                                                                  |
| <b>Latvia - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                            |
| Local name                                      | Etiķskābe (etānskābe)                                                                                                                                                                                                      |
| OEL TWA                                         | 25 mg/m <sup>3</sup>                                                                                                                                                                                                       |
|                                                 | 10 ppm                                                                                                                                                                                                                     |
| OEL STEL                                        | 50 mg/m <sup>3</sup>                                                                                                                                                                                                       |
|                                                 | 20 ppm                                                                                                                                                                                                                     |
| Regulatory reference                            | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2018. gada 10. jūlijā noteikumiem Nr. 407)                                                                                         |
| <b>Lithuania - Occupational Exposure Limits</b> |                                                                                                                                                                                                                            |
| Local name                                      | Acto rūgštis                                                                                                                                                                                                               |
| IPRV (OEL TWA)                                  | 25 mg/m <sup>3</sup>                                                                                                                                                                                                       |
|                                                 | 10 ppm                                                                                                                                                                                                                     |
| TPRV (OEL STEL)                                 | 50 mg/m <sup>3</sup>                                                                                                                                                                                                       |
|                                                 | 20 ppm                                                                                                                                                                                                                     |
| Regulatory reference                            | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)                                                                                                                                                          |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

|                                                   |                                                                                                                                                                     |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>acetic acid ... % (64-19-7)</b>                |                                                                                                                                                                     |
| <b>Luxembourg - Occupational Exposure Limits</b>  |                                                                                                                                                                     |
| Local name                                        | Acide acétique                                                                                                                                                      |
| OEL TWA                                           | 25 mg/m <sup>3</sup>                                                                                                                                                |
|                                                   | 10 ppm                                                                                                                                                              |
| OEL STEL                                          | 50 mg/m <sup>3</sup>                                                                                                                                                |
|                                                   | 20 ppm                                                                                                                                                              |
| Regulatory reference                              | Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail |
| <b>Malta - Occupational Exposure Limits</b>       |                                                                                                                                                                     |
| Local name                                        | Acetic acid                                                                                                                                                         |
| OEL TWA                                           | 25 mg/m <sup>3</sup>                                                                                                                                                |
|                                                   | 10 ppm                                                                                                                                                              |
| OEL STEL                                          | 50 mg/m <sup>3</sup>                                                                                                                                                |
|                                                   | 20 ppm                                                                                                                                                              |
| Regulatory reference                              | S.L.424.24 - Chemical Agents at Work Regulations (L.N.356 of 2021)                                                                                                  |
| <b>Netherlands - Occupational Exposure Limits</b> |                                                                                                                                                                     |
| Local name                                        | Azijnzuur (ethaanzuur)                                                                                                                                              |
| TGG-8u (OEL TWA)                                  | 25 mg/m <sup>3</sup>                                                                                                                                                |
| TGG-15min (OEL STEL)                              | 50 mg/m <sup>3</sup>                                                                                                                                                |
| Regulatory reference                              | Arbeidsomstandighedenregeling 2022                                                                                                                                  |
| <b>Poland - Occupational Exposure Limits</b>      |                                                                                                                                                                     |
| Local name                                        | Kwas octowy                                                                                                                                                         |
| NDS (OEL TWA)                                     | 25 mg/m <sup>3</sup>                                                                                                                                                |
| NDSch (OEL STEL)                                  | 50 mg/m <sup>3</sup>                                                                                                                                                |
| Regulatory reference                              | Dz. U. 2018 poz. 1286                                                                                                                                               |
| <b>Portugal - Occupational Exposure Limits</b>    |                                                                                                                                                                     |
| Local name                                        | Ácido acético                                                                                                                                                       |
| OEL TWA                                           | 10 ppm                                                                                                                                                              |
| OEL STEL                                          | 15 ppm                                                                                                                                                              |
| Regulatory reference                              | Norma Portuguesa NP 1796:2014                                                                                                                                       |
| <b>Romania - Occupational Exposure Limits</b>     |                                                                                                                                                                     |
| Local name                                        | Acid acetic                                                                                                                                                         |
| OEL TWA                                           | 25 mg/m <sup>3</sup>                                                                                                                                                |
|                                                   | 10 ppm                                                                                                                                                              |
| OEL STEL                                          | 50 mg/m <sup>3</sup>                                                                                                                                                |
|                                                   | 20 ppm                                                                                                                                                              |
| Regulatory reference                              | Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)                                                                                                         |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

|                                                      |                                                                                                      |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>acetic acid ... % (64-19-7)</b>                   |                                                                                                      |
| <b>Slovakia - Occupational Exposure Limits</b>       |                                                                                                      |
| Local name                                           | Kyselina octová (kyselina etánová)                                                                   |
| NPHV (OEL TWA)                                       | 25 mg/m <sup>3</sup>                                                                                 |
|                                                      | 10 ppm                                                                                               |
| NPHV (OEL STEL)                                      | 50 mg/m <sup>3</sup>                                                                                 |
|                                                      | 20 ppm                                                                                               |
| Regulatory reference                                 | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)                                                  |
| <b>Slovenia - Occupational Exposure Limits</b>       |                                                                                                      |
| Local name                                           | očetna kislina                                                                                       |
| OEL TWA                                              | 25 mg/m <sup>3</sup>                                                                                 |
|                                                      | 10 ppm                                                                                               |
| OEL STEL                                             | 50 mg/m <sup>3</sup>                                                                                 |
|                                                      | 20 ppm                                                                                               |
| Remark                                               | Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti), EU |
| Regulatory reference                                 | Uradni list RS, št. 72/2021 z dne 11.5.2021                                                          |
| <b>Spain - Occupational Exposure Limits</b>          |                                                                                                      |
| Local name                                           | Ácido acético                                                                                        |
| VLA-ED (OEL TWA)                                     | 25 mg/m <sup>3</sup>                                                                                 |
|                                                      | 10 ppm                                                                                               |
| VLA-EC (OEL STEL)                                    | 50 mg/m <sup>3</sup>                                                                                 |
|                                                      | 20 ppm                                                                                               |
| Remark                                               | VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).            |
| Regulatory reference                                 | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT                        |
| <b>Sweden - Occupational Exposure Limits</b>         |                                                                                                      |
| Local name                                           | Ättiksyra                                                                                            |
| NGV (OEL TWA)                                        | 13 mg/m <sup>3</sup>                                                                                 |
|                                                      | 5 ppm                                                                                                |
| KGV (OEL STEL)                                       | 25 mg/m <sup>3</sup>                                                                                 |
|                                                      | 10 ppm                                                                                               |
| Regulatory reference                                 | Hygieniska gränsvärden (AFS 2018:1)                                                                  |
| <b>United Kingdom - Occupational Exposure Limits</b> |                                                                                                      |
| Local name                                           | Acetic acid                                                                                          |
| WEL TWA (OEL TWA)                                    | 25 mg/m <sup>3</sup>                                                                                 |
|                                                      | 10 ppm                                                                                               |
| WEL STEL (OEL STEL)                                  | 50 mg/m <sup>3</sup>                                                                                 |
|                                                      | 20 ppm                                                                                               |
| Regulatory reference                                 | EH40/2005 (Fourth edition, 2020). HSE                                                                |

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

|                                                   |                                      |
|---------------------------------------------------|--------------------------------------|
| <b>acetic acid ... % (64-19-7)</b>                |                                      |
| <b>Switzerland - Occupational Exposure Limits</b> |                                      |
| Local name                                        | Acide acétique / Essigsäure          |
| MAK (OEL TWA)                                     | 25 mg/m <sup>3</sup>                 |
|                                                   | 10 ppm                               |
| KZGW (OEL STEL)                                   | 50 mg/m <sup>3</sup>                 |
|                                                   | 20 ppm                               |
| Critical toxicity                                 | VRS, Yeux / OAW, Auge                |
| Notation                                          | SS <sub>C</sub> / SS <sub>C</sub>    |
| Remark                                            | NIOSH, OSHA                          |
| Regulatory reference                              | www.suva.ch, 28.03.2022              |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                                      |
| Local name                                        | Acetic acid                          |
| ACGIH OEL TWA                                     | 10 ppm                               |
| ACGIH OEL STEL                                    | 15 ppm                               |
| Remark (ACGIH)                                    | TLV® Basis: URT & eye irr; pulm func |
| Regulatory reference                              | ACGIH 2022                           |

## 8.1.2. Recommended monitoring procedures

No additional information available

## 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

## 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

## 8.2.2.2. Skin protection

### Skin and body protection:

Wear suitable protective clothing

### Hand protection:

Protective gloves

## 8.2.2.3. Respiratory protection

### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

## 8.2.2.4. Thermal hazards

No additional information available

## 8.2.3. Environmental exposure controls

### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                                                 |                                                             |
|-------------------------------------------------|-------------------------------------------------------------|
| Physical state                                  | : Liquid                                                    |
| Colour                                          | : Light blue                                                |
| Appearance                                      | : Enclosed equipment.                                       |
| Odour                                           | : Not available                                             |
| Odour threshold                                 | : Not available                                             |
| Melting point                                   | : Not applicable                                            |
| Freezing point                                  | : Not available                                             |
| Boiling point                                   | : $\approx 159.8^{\circ}\text{F}$ ( $71^{\circ}\text{C}$ )  |
| Flammability                                    | : Not available                                             |
| Explosive limits                                | : Not available                                             |
| Lower explosion limit                           | : Not available                                             |
| Upper explosion limit                           | : Not available                                             |
| Flash point                                     | : $70 - 78^{\circ}\text{F}$ ( $21 - 25.5^{\circ}\text{C}$ ) |
| Auto-ignition temperature                       | : Not available                                             |
| Decomposition temperature                       | : Not available                                             |
| pH                                              | : Not available                                             |
| Viscosity, kinematic                            | : Not available                                             |
| Solubility                                      | : Not available                                             |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                             |
| Vapour pressure                                 | : Not available                                             |
| Vapour pressure at $50^{\circ}\text{C}$         | : Not available                                             |
| Density                                         | : Not available                                             |
| Relative density                                | : Not available                                             |
| Relative vapour density at $20^{\circ}\text{C}$ | : Not available                                             |
| Particle characteristics                        | : Not applicable                                            |

### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### 1-bromopropane; n-propyl bromide (106-94-5)

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| LD50 oral rat         | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |
| LD50 dermal rat       | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | ≈ 0.035 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)    |

#### Paraffin wax ; Paraffin waxes and Hydrocarbon waxes (8002-74-2)

|                    |                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------|
| LD50 oral rat      | > 5000 mg/kg Source: ECHA                                                                  |
| LD50 dermal rat    | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | > 3600 mg/kg Source: NITE                                                                  |

#### acetic acid ... % (64-19-7)

|                             |                                                                 |
|-----------------------------|-----------------------------------------------------------------|
| LD50 oral rat               | 3310 mg/kg bodyweight Animal: rat, Remarks on results: other:   |
| LD50 oral                   | 4960 mg/kg bodyweight Animal: mouse, Remarks on results: other: |
| LD50 dermal rabbit          | 1060 mg/kg Source: HSDB, NITE                                   |
| LC50 Inhalation - Rat [ppm] | 16000 ppm Source: ChemIDPlus                                    |

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

#### 1-bromopropane; n-propyl bromide (106-94-5)

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

Reproductive toxicity : May damage fertility. May damage the unborn child. inhalation.  
STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

## 1-bromopropane; n-propyl bromide (106-94-5)

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

STOT-repeated exposure : May cause damage to organs (liver, central nervous system) through prolonged or repeated exposure (inhalation).

## 1-bromopropane; n-propyl bromide (106-94-5)

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

## Paraffin wax ; Paraffin waxes and Hydrocarbon waxes (8002-74-2)

|                                     |                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------|
| NOAEL (dermal, rat/rabbit, 90 days) | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------|

## acetic acid ... % (64-19-7)

|                            |                                                    |
|----------------------------|----------------------------------------------------|
| NOAEL (oral, rat, 90 days) | 290 mg/kg bodyweight Animal: rat, Animal sex: male |
|----------------------------|----------------------------------------------------|

Aspiration hazard : Not classified

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Not rapidly degradable

## 1-bromopropane; n-propyl bromide (106-94-5)

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | 24.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
|-----------------|------------------------------------------------------------------------------------------|

|                      |                                                   |
|----------------------|---------------------------------------------------|
| EC50 - Crustacea [1] | 99.3 mg/l Test organisms (species): Daphnia magna |
|----------------------|---------------------------------------------------|

|                      |                         |
|----------------------|-------------------------|
| EC50 72h - Algae [1] | > 260 mg/l Source: ECHA |
|----------------------|-------------------------|

|                      |                                            |
|----------------------|--------------------------------------------|
| EC50 96h - Algae [1] | ≈ 50 mg/l Test organisms (species): other: |
|----------------------|--------------------------------------------|

## acetic acid ... % (64-19-7)

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| LC50 - Fish [1] | > 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
|-----------------|--------------------------------------------------------------------------------------------|

|                 |                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------|
| LC50 - Fish [2] | > 300.82 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
|-----------------|----------------------------------------------------------------------------------------------|

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| EC50 - Crustacea [1] | > 1000 mg/l Test organisms (species): Daphnia magna |
|----------------------|-----------------------------------------------------|

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| EC50 - Crustacea [2] | > 300.82 mg/l Test organisms (species): Daphnia magna |
|----------------------|-------------------------------------------------------|

|                      |                                                            |
|----------------------|------------------------------------------------------------|
| EC50 72h - Algae [1] | > 1000 mg/l Test organisms (species): Skeletonema costatum |
|----------------------|------------------------------------------------------------|

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| EC50 72h - Algae [2] | > 300.82 mg/l Test organisms (species): Skeletonema costatum |
|----------------------|--------------------------------------------------------------|

### 12.2. Persistence and degradability

No additional information available

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

## 12.3. Bioaccumulative potential

### 1-bromopropane; n-propyl bromide (106-94-5)

|                                                 |                  |
|-------------------------------------------------|------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.1 Source: ECHA |
|-------------------------------------------------|------------------|

### acetic acid ... % (64-19-7)

|                                                 |                    |
|-------------------------------------------------|--------------------|
| Partition coefficient n-octanol/water (Log Pow) | -0.17 Source: ECHA |
|-------------------------------------------------|--------------------|

## 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

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Flammable vapours may accumulate in the container. Do not re-use empty containers.          |

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 2344 |
| UN-No. (IMDG) | : UN 2344 |
| UN-No. (IATA) | : UN 2344 |
| UN-No. (ADN)  | : UN 2344 |
| UN-No. (RID)  | : UN 2344 |

### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (ADR)  | : BROMOPROPANES |
| Proper Shipping Name (IMDG) | : BROMOPROPANES |
| Proper Shipping Name (IATA) | : Bromopropanes |
| Proper Shipping Name (ADN)  | : BROMOPROPANES |
| Proper Shipping Name (RID)  | : BROMOPROPANES |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 3 |
| Danger labels (ADR)              | : 3 |



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

## IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3  
:



## IATA

Transport hazard class(es) (IATA) : 3  
Danger labels (IATA) : 3  
:



## ADN

Transport hazard class(es) (ADN) : 3  
Danger labels (ADN) : 3  
:



## RID

Transport hazard class(es) (RID) : 3  
Danger labels (RID) : 3  
:



## 14.4. Packing group

Packing group (ADR) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II  
Packing group (ADN) : II  
Packing group (RID) : II

## 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

## 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : F1  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1  
Tank code (ADR) : LGBF  
Vehicle for tank carriage : FL  
Transport category (ADR) : 2

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

Special provisions for carriage - Operation (ADR) : S2, S20  
Hazard identification number (Kemler No.) : 33  
Orange plates :



Tunnel restriction code (ADR) : D/E  
EAC code : 2YE

## Transport by sea

Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-D  
Stowage category (IMDG) : B  
Stowage and handling (IMDG) : SW2  
Segregation (IMDG) : SGG10  
Properties and observations (IMDG) : Colourless liquids. Immiscible with water. When involved in a fire, evolve toxic fumes.  
Harmful by inhalation.

## Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3L

## Inland waterway transport

Classification code (ADN) : F1  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

## Rail transport

Classification code (RID) : F1  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

## 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

#### 15.1.1. EU-Regulations

| EU restriction list (REACH Annex XVII) |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference code                         | Applicable on                                                                           | Entry title or description                                                                                                                                                                                                                                                                                                                                                                         |
| 3(a)                                   | 1-bromopropane; n-propyl bromide ; acetic acid ... %                                    | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F                                                                                           |
| 3(b)                                   | ImmEdge® Hydrophobic Barrier Pen ; 1-bromopropane; n-propyl bromide ; acetic acid ... % | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10                                                                                  |
| 3(c)                                   | ImmEdge® Hydrophobic Barrier Pen ; 1-bromopropane; n-propyl bromide                     | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1                                                                                                                                                                                                                          |
| 30.                                    | 1-bromopropane; n-propyl bromide                                                        | Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.                                                                                                                                                                                                         |
| 40.                                    | 1-bromopropane; n-propyl bromide ; acetic acid ... %                                    | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq 0.1$  % or SCL: 1-bromopropane (n-propyl bromide) (EC 203-445-0, CAS 106-94-5)

Contains substance(s) listed on REACH Annex XIV: 1-bromopropane (n-propyl bromide) (EC 203-445-0, CAS 106-94-5)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): 1-bromopropane (n-propyl bromide) (106-94-5)

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

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

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

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)

#### 15.1.2. National regulations

##### 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 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of 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 : Paraffin wax ; Paraffin waxes and Hydrocarbon waxes is listed

SZW-lijst van mutagene stoffen : Paraffin wax ; Paraffin waxes and Hydrocarbon waxes is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – : 1-bromopropane; n-propyl bromide is listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : 1-bromopropane; n-propyl bromide is listed

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

## Denmark

Class for fire hazard : Class III-1  
Store unit : 50 liter  
Classification remarks : Flammable according to the Danish Ministry of Justice; 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

## Switzerland

Storage class (LK) : LK 3 - Flammable liquids

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: |                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate                                                                         |
| BCF                         | Bioconcentration factor                                                                         |
| BLV                         | Biological limit value                                                                          |
| BOD                         | Biochemical oxygen demand (BOD)                                                                 |
| COD                         | Chemical oxygen demand (COD)                                                                    |
| DMEL                        | Derived Minimal Effect level                                                                    |
| DNEL                        | Derived-No Effect Level                                                                         |
| EC-No.                      | European Community number                                                                       |
| EC50                        | Median effective concentration                                                                  |
| EN                          | European Standard                                                                               |
| IARC                        | International Agency for Research on Cancer                                                     |
| IATA                        | International Air Transport Association                                                         |
| IMDG                        | International Maritime Dangerous Goods                                                          |
| LC50                        | Median lethal concentration                                                                     |
| LD50                        | Median lethal dose                                                                              |
| LOAEL                       | Lowest Observed Adverse Effect Level                                                            |
| NOAEC                       | No-Observed Adverse Effect Concentration                                                        |
| NOAEL                       | No-Observed Adverse Effect Level                                                                |
| NOEC                        | No-Observed Effect Concentration                                                                |
| OECD                        | Organisation for Economic Co-operation and Development                                          |
| OEL                         | Occupational Exposure Limit                                                                     |
| PBT                         | Persistent Bioaccumulative Toxic                                                                |
| PNEC                        | Predicted No-Effect Concentration                                                               |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS                         | Safety Data Sheet                                                                               |

# Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/02/2025 Version: 4.0

| Abbreviations and acronyms: |                                          |
|-----------------------------|------------------------------------------|
| STP                         | Sewage treatment plant                   |
| ThOD                        | Theoretical oxygen demand (ThOD)         |
| TLM                         | Median Tolerance Limit                   |
| VOC                         | Volatile Organic Compounds               |
| CAS-No.                     | Chemical Abstract Service number         |
| N.O.S.                      | Not Otherwise Specified                  |
| vPvB                        | Very Persistent and Very Bioaccumulative |
| ED                          | Endocrine disruptor                      |

| Full text of H- and EUH-statements: |                                                                        |
|-------------------------------------|------------------------------------------------------------------------|
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                          |
| Flam. Liq. 2                        | Flammable liquids, Category 2                                          |
| Flam. Liq. 3                        | Flammable liquids, Category 3                                          |
| H225                                | Highly flammable liquid and vapour.                                    |
| H226                                | Flammable liquid and vapour.                                           |
| H314                                | Causes severe skin burns and eye damage.                               |
| H315                                | Causes skin irritation.                                                |
| H319                                | Causes serious eye irritation.                                         |
| H335                                | May cause respiratory irritation.                                      |
| H336                                | May cause drowsiness or dizziness.                                     |
| H360FD                              | May damage fertility. May damage the unborn child.                     |
| H373                                | May cause damage to organs through prolonged or repeated exposure.     |
| Repr. 1B                            | Reproductive toxicity, Category 1B                                     |
| Skin Corr. 1A                       | Skin corrosion/irritation, Category 1, Sub-Category 1A                 |
| Skin Corr. 1B                       | Skin corrosion/irritation, Category 1, Sub-Category 1B                 |
| 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

Custom\_SDS\_EU\_VECTOR

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.