

# SAFETY DATA SHEET



This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date: 08-May-2026

Print Date: 06-Jul-2026

Revision Number: 1

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

### 1.1. Product identifier

**Product Name:** **TECWERK Brennspritus 1L Dose**  
**Article number:** (Art.Nr.: 2000355970)  
**UFI:** HR2P-S26R-N006-4G42

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

Recommended use:

**Product categories [PC]:** PC 0.56 - Solvent  
PC35 - Washing and cleaning products (including solvent based products)

**Uses advised against:** No information available

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

**Supplier:** NORDWEST Handel AG  
Robert-Schuman-Str. 17  
D - 44263 Dortmund  
Telefon: +49 231/ 222 3001  
+49 231/ 222 3099  
www.nordwest.com

**E-mail address** sdb@nordwest.com

### 1.4. Emergency telephone number

**Emergency Telephone:** poisson center, Mainz, Tel. +49 6131/ 19 240 (24 h)

| Emergency Telephone - §45 - (EC)1272/2008 |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bulgaria</b>                           | +359 2 9154 213 (Pirogov)                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Italy</b>                              | Centro Antiveneni di Milano: 02.66101029; Centro Antiveneni di Roma: 06.3054343;<br>Centro Antiveneni di Roma: 06.49978000; Centro Antiveneni di Roma: 06.68593726;<br>Centro Antiveneni di Pavia: 0382.24444; Centro Antiveneni di Firenze: 055.7947819;<br>Centro Antiveneni di Bergamo: 800.883300; Centro Antiveneni di Foggia: 0881.732326;<br>Centro Antiveneni di Napoli: 081.7472870; Centro Antiveneni di Verona: 800.011.858 |
| <b>Portugal</b>                           | +351 800 250 250 (CIAV)                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Slovakia</b>                           | +421 2 5477 4166 (NTIC)                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Spain</b>                              | +34 91 562 04 20 (INTCF)                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Switzerland</b>                        | 145 (Tox-Info Suisse)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Hungary</b>                            | +36 80 201 199; +36 1 476 6464 (ETTSZ)                                                                                                                                                                                                                                                                                                                                                                                                 |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

|                                          |                     |
|------------------------------------------|---------------------|
| <b>Flammable liquids</b>                 | Category 2 - (H225) |
| <b>Serious eye damage/eye irritation</b> | Category 2 - (H319) |

### 2.2. Label elements

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Signal word: **Danger**

## Hazard statements:

H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

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

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

P102 - Keep out of reach of children

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

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

P280 - Wear protective gloves and eye/face protection

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

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

## Additional information:

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

## 2.3. Other hazards

**PBT & vPvB:** This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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

## SECTION 3: Composition/information on ingredients

alcohols, additives

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name     | CAS No. | EC No<br>(EU Index<br>No)       | REACH registration<br>number | Classification<br>according to<br>Regulation (EC) No.<br>1272/2008 [CLP] | Weight-%   |
|-------------------|---------|---------------------------------|------------------------------|--------------------------------------------------------------------------|------------|
| Ethyl alcohol     | 64-17-5 | 200-578-6<br>(603-002-00-<br>5) | 01-2119457610-43             | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)                               | 75 - < 100 |
| Isopropyl alcohol | 67-63-0 | 200-661-7<br>(603-117-00-<br>0) | 01-2119457558-25             | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H336)           | 1 - < 3    |

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|                     |         |                             |                  |                                                                            |         |
|---------------------|---------|-----------------------------|------------------|----------------------------------------------------------------------------|---------|
| Methyl ethyl ketone | 78-93-3 | 201-159-0<br>(606-002-00-3) | 01-2119457290-43 | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)<br>STOT SE 3 (H336)<br>(EUH066) | 1 - < 3 |
|---------------------|---------|-----------------------------|------------------|----------------------------------------------------------------------------|---------|

| Chemical name            | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | Notes |
|--------------------------|------------------------------------|----------|----------------------|-------|
| Ethyl alcohol<br>64-17-5 | Eye Irrit. 2 :: C>=50%             |          |                      |       |

#### Acute Toxicity Estimate:

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

| Chemical name                  | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--------------------------------|-----------------|-------------------|---------------------------------------------|-----------------------------------------|--------------------------------------|
| Ethyl alcohol<br>64-17-5       | 10470           | 2500              | No data available                           | 51                                      | No data available                    |
| Methyl ethyl ketone<br>78-93-3 | 2500            | No data available | No data available                           | 34                                      | No data available                    |

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

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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

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

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**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

**Effects of Exposure** None.

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

Note to physicians: Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

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

Specific hazards arising from the chemical: Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

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

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

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

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

### 6.2. Environmental precautions

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

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

Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect

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runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

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

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

## 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling



Advice on safe handling: Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

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

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

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

### 7.3. Specific end use(s)

Other information: No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure Limits:

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---------------|----------------|---------|---------|----------|---------|
|---------------|----------------|---------|---------|----------|---------|

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|                                |                                                                                                   |                                                                                                 |                                                                                                     |                                                                                               |                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Ethyl alcohol<br>64-17-5       |                                                                                                   | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL 2000 ppm<br>STEL 3800 mg/m <sup>3</sup>    | TWA: 1000 ppm<br>TWA: 1907 mg/m <sup>3</sup>                                                        | TWA: 1000 mg/m <sup>3</sup>                                                                   | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                      |
| Isopropyl alcohol<br>67-63-0   |                                                                                                   | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL 800 ppm<br>STEL 2000 mg/m <sup>3</sup>       | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup>         | TWA: 980.0 mg/m <sup>3</sup><br>STEL: 1225.0 mg/m <sup>3</sup>                                | TWA: 400 ppm<br>TWA: 999 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1250 mg/m <sup>3</sup>       |
| Methyl ethyl ketone<br>78-93-3 | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>        | TWA: 100 ppm<br>TWA: 295 mg/m <sup>3</sup><br>STEL 200 ppm<br>STEL 590 mg/m <sup>3</sup><br>Sk* | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>          | TWA: 590 mg/m <sup>3</sup><br>STEL: 885 mg/m <sup>3</sup>                                     | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>        |
| <b>Chemical name</b>           | <b>Cyprus</b>                                                                                     | <b>Czech Republic</b>                                                                           | <b>Denmark</b>                                                                                      | <b>Estonia</b>                                                                                | <b>Finland</b>                                                                                    |
| Ethyl alcohol<br>64-17-5       |                                                                                                   | TWA: 1000 mg/m <sup>3</sup><br>Ceiling: 3000 mg/m <sup>3</sup>                                  | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 2000 ppm<br>STEL: 3800 mg/m <sup>3</sup>      | TWA: 500 ppm<br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 1300 ppm<br>STEL: 2500 mg/m <sup>3</sup>    |
| Isopropyl alcohol<br>67-63-0   |                                                                                                   | TWA: 500 mg/m <sup>3</sup><br>Sk*<br>Ceiling: 1000 mg/m <sup>3</sup>                            | TWA: 200 ppm<br>TWA: 490 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 980 mg/m <sup>3</sup>          | TWA: 150 ppm<br>TWA: 350 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 600 mg/m <sup>3</sup>    | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 620 mg/m <sup>3</sup>        |
| Methyl ethyl ketone<br>78-93-3 | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>        | TWA: 600 mg/m <sup>3</sup><br>Ceiling: 900 mg/m <sup>3</sup>                                    | TWA: 50 ppm<br>TWA: 145 mg/m <sup>3</sup><br>STEL: 900 mg/m <sup>3</sup><br>STEL: 300 ppm<br>Sk*    | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>    | TWA: 20 ppm<br>TWA: 60 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 300 mg/m <sup>3</sup><br>Sk*   |
| <b>Chemical name</b>           | <b>France</b>                                                                                     | <b>Germany TRGS</b>                                                                             | <b>Germany DFG</b>                                                                                  | <b>Greece</b>                                                                                 | <b>Hungary</b>                                                                                    |
| Ethyl alcohol<br>64-17-5       | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 5000 ppm<br>STEL: 9500 mg/m <sup>3</sup>    | TWA: 200 ppm<br>TWA: 380 mg/m <sup>3</sup>                                                      | TWA: 200 ppm<br>TWA: 380 mg/m <sup>3</sup><br>Peak: 800 ppm<br>Peak: 1520 mg/m <sup>3</sup>         | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                  | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 2000 ppm<br>STEL: 3800 mg/m <sup>3</sup>    |
| Isopropyl alcohol<br>67-63-0   | STEL: 400 ppm<br>STEL: 980 mg/m <sup>3</sup>                                                      | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup>                                                      | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>Peak: 400 ppm<br>Peak: 1000 mg/m <sup>3</sup>         | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup>   | TWA: 500 mg/m <sup>3</sup><br>TWA: 200 ppm<br>STEL: 1000 mg/m <sup>3</sup><br>STEL: 400 ppm<br>b* |
| Methyl ethyl ketone<br>78-93-3 | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup><br>Sk* | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>Sk*                                               | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>Peak: 200 ppm<br>Peak: 600 mg/m <sup>3</sup><br>Sk*   | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>    | TWA: 600 mg/m <sup>3</sup><br>TWA: 200 ppm<br>STEL: 900 mg/m <sup>3</sup><br>STEL: 300 ppm<br>b*  |
| <b>Chemical name</b>           | <b>Ireland</b>                                                                                    | <b>Italy MDLPS</b>                                                                              | <b>Italy AIDII</b>                                                                                  | <b>Latvia</b>                                                                                 | <b>Lithuania</b>                                                                                  |
| Ethyl alcohol<br>64-17-5       | STEL: 1000 ppm                                                                                    |                                                                                                 | STEL: 1000 ppm<br>STEL: 1884 mg/m <sup>3</sup>                                                      | TWA: 1000 mg/m <sup>3</sup>                                                                   | TWA: 500 ppm<br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup>     |
| Isopropyl alcohol<br>67-63-0   | TWA: 200 ppm<br>STEL: 400 ppm<br>Sk*                                                              |                                                                                                 | TWA: 200 ppm<br>TWA: 492 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 983 mg/m <sup>3</sup>          | TWA: 350 mg/m <sup>3</sup><br>STEL: 600 mg/m <sup>3</sup>                                     | TWA: 150 ppm<br>TWA: 350 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 600 mg/m <sup>3</sup>        |
| Methyl ethyl ketone<br>78-93-3 | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup><br>Sk* | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>      | TWA: 200 ppm<br>TWA: 590 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 885 mg/m <sup>3</sup>          | TWA: 67 ppm<br>TWA: 200 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>     |                                                                                                   |
| <b>Chemical name</b>           | <b>Luxembourg</b>                                                                                 | <b>Malta</b>                                                                                    | <b>Netherlands</b>                                                                                  | <b>Norway</b>                                                                                 | <b>Poland</b>                                                                                     |
| Ethyl alcohol<br>64-17-5       |                                                                                                   |                                                                                                 | TWA: 137 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup><br>Sk* | TWA: 500 ppm<br>TWA: 950 mg/m <sup>3</sup><br>STEL: 625 ppm<br>STEL: 1187.5 mg/m <sup>3</sup> | TWA: 1900 mg/m <sup>3</sup>                                                                       |
| Isopropyl alcohol              |                                                                                                   |                                                                                                 |                                                                                                     | TWA: 100 ppm                                                                                  | TWA: 900 mg/m <sup>3</sup>                                                                        |

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|                                |                                                                                                                   |                                                                                                   |                                                                                                   |                                                                                                   |                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 67-63-0                        |                                                                                                                   |                                                                                                   |                                                                                                   | TWA: 245 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 306.25 mg/m <sup>3</sup>                     | STEL: 1200 mg/m <sup>3</sup><br>Sk*                                                         |
| Methyl ethyl ketone<br>78-93-3 | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>                        | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>        | TWA: 197 ppm<br>TWA: 590 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup><br>Sk* | TWA: 75 ppm<br>TWA: 220 mg/m <sup>3</sup><br>STEL: 112.5 ppm<br>STEL: 275 mg/m <sup>3</sup>       | TWA: 450 mg/m <sup>3</sup><br>STEL: 900 mg/m <sup>3</sup><br>Sk*                            |
| <b>Chemical name</b>           | <b>Portugal</b>                                                                                                   | <b>Romania</b>                                                                                    | <b>Slovakia</b>                                                                                   | <b>Slovenia</b>                                                                                   | <b>Spain</b>                                                                                |
| Ethyl alcohol<br>64-17-5       | STEL: 1000 ppm                                                                                                    | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 5000 ppm<br>STEL: 9500 mg/m <sup>3</sup>    | TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup><br>Ceiling: 1920 mg/m <sup>3</sup>                     | TWA: 960 mg/m <sup>3</sup><br>TWA: 500 ppm<br>STEL: 1000 ppm<br>STEL: 1920 mg/m <sup>3</sup>      | STEL: 1000 ppm<br>STEL: 1910 mg/m <sup>3</sup>                                              |
| Isopropyl alcohol<br>67-63-0   | TWA: 200 ppm<br>STEL: 400 ppm                                                                                     | TWA: 81 ppm<br>TWA: 200 mg/m <sup>3</sup><br>STEL: 203 ppm<br>STEL: 500 mg/m <sup>3</sup>         | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>Ceiling: 1000 mg/m <sup>3</sup>                     | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup>       | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup> |
| Methyl ethyl ketone<br>78-93-3 | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>                        | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>        | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>Ceiling: 900 mg/m <sup>3</sup>                      | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup><br>Sk* | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>  |
| <b>Chemical name</b>           | <b>Sweden</b>                                                                                                     | <b>Switzerland</b>                                                                                | <b>United Kingdom</b>                                                                             | <b>Russia</b>                                                                                     | <b>Türkiye</b>                                                                              |
| Ethyl alcohol<br>64-17-5       | NGV: 500 ppm<br>NGV: 1000 mg/m <sup>3</sup><br>Vägledande KGV: 1000 ppm<br>Vägledande KGV: 1900 mg/m <sup>3</sup> | TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1920 mg/m <sup>3</sup>      | TWA: 1000 ppm<br>TWA: 1920 mg/m <sup>3</sup><br>STEL: 3000 ppm<br>STEL: 5760 mg/m <sup>3</sup>    | TWA: 1000 mg/m <sup>3</sup><br>MAC: 2000 mg/m <sup>3</sup>                                        | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                |
| Isopropyl alcohol<br>67-63-0   | NGV: 150 ppm<br>NGV: 350 mg/m <sup>3</sup><br>Vägledande KGV: 250 ppm<br>Vägledande KGV: 600 mg/m <sup>3</sup>    | TWA: 200 ppm<br>TWA: 500 mg/m <sup>3</sup><br>STEL: 400 ppm<br>STEL: 1000 mg/m <sup>3</sup>       | TWA: 400 ppm<br>TWA: 999 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1250 mg/m <sup>3</sup>       | TWA: 10 mg/m <sup>3</sup><br>MAC: 50 mg/m <sup>3</sup>                                            | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup>                                                  |
| Methyl ethyl ketone<br>78-93-3 | NGV: 50 ppm<br>NGV: 150 mg/m <sup>3</sup><br>Bindande KGV: 300 ppm<br>Bindande KGV: 900 mg/m <sup>3</sup>         | TWA: 200 ppm<br>TWA: 590 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 590 mg/m <sup>3</sup><br>Sk* | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 899 mg/m <sup>3</sup><br>Sk* | TWA: 200 mg/m <sup>3</sup><br>MAC: 400 mg/m <sup>3</sup>                                          | TWA: 200 ppm<br>TWA: 600 mg/m <sup>3</sup><br>STEL: 300 ppm<br>STEL: 900 mg/m <sup>3</sup>  |

Biological occupational exposure limits:

| Chemical name                  | European Union | Germany DFG                                                                                                                                                                                                                      | Netherlands | Spain                                         | United Kingdom                               | Hungary |
|--------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------|----------------------------------------------|---------|
| Isopropyl alcohol<br>67-63-0   | -              | 25 mg/L (whole blood - Acetone end of exposure or shift)<br>25 mg/L (urine - Acetone end of exposure or shift)<br>25 mg/L - BAT (end of exposure or end of shift) urine<br>25 mg/L - BAT (end of exposure or end of shift) blood |             | 40 mg/L - urine (Acetone) - end of workweek   | -                                            |         |
| Methyl ethyl ketone<br>78-93-3 | -              | 2 mg/L (urine - 2-Butanone end of exposure or shift)                                                                                                                                                                             |             | 2 mg/L - urine (Methyl ethyl ketone) - end of | 70 µmol/L - urine (Butan-2-one) - post shift |         |

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| Chemical name | European Union | Germany DFG                                          | Netherlands | Spain | United Kingdom | Hungary |
|---------------|----------------|------------------------------------------------------|-------------|-------|----------------|---------|
|               |                | 2 mg/L - BAT (end of exposure or end of shift) urine |             | shift |                |         |

| Chemical name                  | France                                        | Italy MDLPS | Portugal | Finland | Denmark | Czech Republic |
|--------------------------------|-----------------------------------------------|-------------|----------|---------|---------|----------------|
| Methyl ethyl ketone<br>78-93-3 | - urine<br>(Methylethylketone) - end of shift | -           | -        |         |         |                |

| Chemical name                  | Austria | Switzerland                                                                                                                                                                                    | Poland | Norway | Ireland                                                   | Russia |
|--------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------|--------|
| Isopropyl alcohol<br>67-63-0   | -       | 25 mg/L - urine (Acetone) - end of shift<br>0.4 mmol/L - urine (Acetone) - end of shift<br>25 mg/L - whole blood (Acetone) - end of shift<br>0.4 mmol/L - whole blood (Acetone) - end of shift | -      | -      | 40 mg/L (urine - Acetone end of shift at end of workweek) |        |
| Methyl ethyl ketone<br>78-93-3 | -       | 2 mg/L - urine (2-Butanone) - end of shift, before subsequent shift or 16 hour<br>27.7 µmol/L - urine (2-Butanone) - end of shift, before subsequent shift or 16 hour                          | -      | -      | 70 µmol/L (urine - Butan-2-one post shift)                |        |

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

| Chemical name       | long-term, systemic   | short-term, systemic   | long-term, local | short-term, local |
|---------------------|-----------------------|------------------------|------------------|-------------------|
| Isopropyl alcohol   | 500 mg/m <sup>3</sup> | 1000 mg/m <sup>3</sup> |                  |                   |
| Methyl ethyl ketone | 600 mg/m <sup>3</sup> | 900 mg/m <sup>3</sup>  |                  |                   |

Worker - dermal:

| Chemical name       | long-term, systemic | short-term, systemic | long-term, local | short-term, local |
|---------------------|---------------------|----------------------|------------------|-------------------|
| Isopropyl alcohol   | 888 mg/kg bw/day    |                      |                  |                   |
| Methyl ethyl ketone | 1161 mg/kg bw/day   |                      |                  |                   |

Consumer - inhalative:

| Chemical name       | long-term, systemic   | short-term, systemic  | long-term, local | short-term, local |
|---------------------|-----------------------|-----------------------|------------------|-------------------|
| Isopropyl alcohol   | 89 mg/m <sup>3</sup>  | 178 mg/m <sup>3</sup> |                  |                   |
| Methyl ethyl ketone | 106 mg/m <sup>3</sup> | 450 mg/m <sup>3</sup> |                  |                   |

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Consumer - dermal:

| Chemical name       | long-term, systemic | short-term, systemic | long-term, local | short-term, local |
|---------------------|---------------------|----------------------|------------------|-------------------|
| Isopropyl alcohol   | 319 mg/kg bw/day    |                      |                  |                   |
| Methyl ethyl ketone | 412 mg/kg bw/day    |                      |                  |                   |

Consumer - oral:

| Chemical name       | long-term, systemic | short-term, systemic | long-term, local | short-term, local |
|---------------------|---------------------|----------------------|------------------|-------------------|
| Isopropyl alcohol   | 26 mg/kg bw/day     | 51 mg/kg bw/day      |                  |                   |
| Methyl ethyl ketone | 31 mg/kg bw/day     |                      |                  |                   |

Predicted No Effect Concentration (PNEC):

component information:

| Chemical name                     | Ethyl alcohol<br>CAS: 64-17-5 |
|-----------------------------------|-------------------------------|
| Freshwater                        | 0.38 g/kg food<br>0.96 mg/L   |
| Marine water                      | 0.38 g/kg food<br>0.79 mg/L   |
| Freshwater (intermittent release) | 2.75 mg/L                     |
| Sewage treatment                  | 580 mg/L                      |
| Freshwater sediment               | 3.6 mg/kg sediment dw         |
| Marine sediment                   | 2.9 mg/kg sediment dw         |
| Soil                              | 0.63 mg/kg soil dw            |

## 8.2. Exposure controls

Engineering controls:

Showers, eyewash stations, and ventilation systems.

Personal protective equipment:

The usual precautionary measures for the handling of chemicals have to be observed.



Eye/face protection:

Tight sealing safety goggles.

Hand protection:

Wear suitable gloves. Impervious gloves.

| PPE - Glove material            | Glove thickness | Break through time |
|---------------------------------|-----------------|--------------------|
| Butyl caoutchouc (butyl rubber) | 0.5 mm          | >=480 min.         |

Skin and body protection:

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection:

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

Recommended Filter Type:

Filtering device (full mask or mouthpiec) with filter: A

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Environmental exposure controls: No information available.

## SECTION 9: Physical and chemical properties

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

|                               |                   |  |                    |            |        |                 |
|-------------------------------|-------------------|--|--------------------|------------|--------|-----------------|
| Appearance                    | Liquid            |  |                    |            |        |                 |
| Color                         | colorless         |  |                    |            |        |                 |
| Odor                          | Alcohol           |  |                    |            |        |                 |
|                               |                   |  | Units              | Conditions | Method | Remarks         |
| Melting point / melting range | -114              |  | °C                 |            |        |                 |
| Boiling point / boiling range | 78                |  | °C                 |            |        |                 |
| Flammability                  |                   |  |                    |            |        | Not established |
| Decomposition temperature     |                   |  |                    |            |        | None known      |
| Flash point                   | ~ 12              |  | °C                 |            |        |                 |
| Autoignition temperature      | 363 - 425         |  | °C                 |            |        |                 |
| Lower explosive limit         | 2.5               |  | Vol%               |            |        |                 |
| Upper explosion limit         | 15                |  | Vol%               |            |        |                 |
| Vapor pressure                |                   |  |                    |            |        | Not established |
| Density                       | ~ 0.805           |  | g/cm <sup>3</sup>  | 20 °C      |        |                 |
| Water solubility              |                   |  |                    |            |        | Miscible        |
| pH                            |                   |  |                    |            |        | Not applicable  |
| pH (as aqueous solution)      |                   |  |                    |            |        | Not established |
| Partition coefficient         |                   |  |                    |            |        | Not established |
| Kinematic viscosity           | < 20.5            |  | mm <sup>2</sup> /s | 40 °C      |        |                 |
| Odor threshold                |                   |  |                    |            |        | Not established |
| Relative density              |                   |  |                    |            |        | Not established |
| Evaporation rate              |                   |  |                    |            |        | Not established |
| Relative vapor density        | no data available |  |                    |            |        |                 |
| Particle Size                 | no data available |  |                    |            |        |                 |
| Particle Size Distribution    | no data available |  |                    |            |        |                 |

### 9.2. Other information

|                  |                          |
|------------------|--------------------------|
| Bulk density:    | no data available        |
| Softening point  | No information available |
| Molecular weight | No information available |

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

|                      |                   |
|----------------------|-------------------|
| Explosive properties | No data available |
| Oxidizing properties | No data available |

#### 9.2.2. Other safety characteristics: No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity: No information available.

### 10.2. Chemical stability

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Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: Yes.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

## 10.4. Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

## 10.5. Incompatible materials

Incompatible materials: None known based on information supplied.

## 10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

## SECTION 11: Toxicological information

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

Information on likely routes of exposure:

Product Information:

Inhalation: Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact: Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact: Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

Ingestion: Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: May cause redness and tearing of the eyes.

Numerical measures of toxicity:

Acute toxicity:

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

Component Information:

| Chemical name            | Parameter | Species | Effective dose | Method   |
|--------------------------|-----------|---------|----------------|----------|
| Ethyl alcohol<br>64-17-5 | Oral LD50 | Rat     | 10470 mg/kg    | OECD 401 |

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| Chemical name                  | Parameter | Species | Effective dose | Method   |
|--------------------------------|-----------|---------|----------------|----------|
| Methyl ethyl ketone<br>78-93-3 | Oral LD50 | Rat     | > 2193 mg/kg   | OECD 423 |

| Chemical name            | Parameters  | Species | Effective dose | Method   |
|--------------------------|-------------|---------|----------------|----------|
| Ethyl alcohol<br>64-17-5 | Dermal LD50 | Rabbit  | > 2000 mg/kg   | OECD 402 |

| Chemical name                  | Parameters      | Species | Effective dose      | Exposure time | Method |
|--------------------------------|-----------------|---------|---------------------|---------------|--------|
| Ethyl alcohol<br>64-17-5       | Inhalation LC50 |         |                     | 4 h           |        |
| Methyl ethyl ketone<br>78-93-3 | Inhalation LC50 | Rat     | 34 g/m <sup>3</sup> | 4 h           |        |

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

|                                    |                                |
|------------------------------------|--------------------------------|
| Skin corrosion/irritation:         | May cause skin irritation.     |
| Serious eye damage/eye irritation: | Causes serious eye irritation. |
| Respiratory or skin sensitization: | No information available.      |
| Germ cell mutagenicity:            | No information available.      |
| Carcinogenicity:                   | No information available.      |
| Reproductive toxicity:             | No information available.      |
| STOT - single exposure:            | No information available.      |
| STOT - repeated exposure:          | No information available.      |
| Aspiration hazard:                 | No information available.      |

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No information available.

### 11.2.2. Other information

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity:

fish toxicity:

| Chemical name | Parameter | Species    | Effective dose | Exposure time | Method |
|---------------|-----------|------------|----------------|---------------|--------|
| Ethyl alcohol | LC50      | Pimephales | 15300 mg/L     | 96 h          |        |

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| Chemical name                  | Parameter | Species                | Effective dose   | Exposure time | Method   |
|--------------------------------|-----------|------------------------|------------------|---------------|----------|
| 64-17-5                        |           | promelas               |                  |               |          |
| Isopropyl alcohol<br>67-63-0   | LC50      | Pimephales<br>promelas | 9640 mg/L        | 96 h          | OECD 203 |
| Methyl ethyl ketone<br>78-93-3 | LC50      | Pimephales<br>promelas | 3130 - 3320 mg/L | 96 h          | OECD 203 |

toxicity to crustacea:

| Chemical name                  | Parameter | Species       | Effective dose | Exposure time | Method   |
|--------------------------------|-----------|---------------|----------------|---------------|----------|
| Ethyl alcohol<br>64-17-5       | EC50      | Daphnia magna | 12340 mg/L     | 48 h          |          |
| Isopropyl alcohol<br>67-63-0   | EC50      | Daphnia magna | 13299 mg/L     | 48 h          | OECD 202 |
| Methyl ethyl ketone<br>78-93-3 | EC50      | Daphnia magna | > 520 mg/L     | 48 h          | OECD 202 |

Algae Toxicity:

| Chemical name                  | Parameter | Species                             | Effective dose | Exposure time | Method   |
|--------------------------------|-----------|-------------------------------------|----------------|---------------|----------|
| Ethyl alcohol<br>64-17-5       | EC50      | Chlorella vulgaris                  | 275 mg/L       | 72 h          | OECD 201 |
| Isopropyl alcohol<br>67-63-0   | EC50      | Desmodesmus<br>subspicatus          | > 1000 mg/L    | 72 h          | OECD 201 |
| Methyl ethyl ketone<br>78-93-3 | EC50      | Pseudokirchneri<br>ella subcapitata | 1972 mg/L      | 72 h          | OECD 201 |

Bacteria toxicity:

| Chemical name                  | Parameters | Species               | Effective dose | Exposure time | Method    |
|--------------------------------|------------|-----------------------|----------------|---------------|-----------|
| Methyl ethyl ketone<br>78-93-3 | EC0        | pseudomonas<br>putida | 1150 mg/L      | 16 h          | DIN 38412 |

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

| Chemical name                  | degradation rate | test duration | Readily<br>biodegradable | Remarks                         | Method     |
|--------------------------------|------------------|---------------|--------------------------|---------------------------------|------------|
| Ethyl alcohol<br>64-17-5       | 97 %             | 28 d          | Yes                      | Aerobic biological<br>treatment | OECD 301 B |
| Isopropyl alcohol<br>67-63-0   | 53 %             | 5 d           | Yes                      |                                 |            |
| Methyl ethyl ketone<br>78-93-3 | 98 %             | 28 d          | Yes                      | Aerobic biological<br>treatment | OECD 301 D |

## 12.3. Bioaccumulative potential

Bioaccumulation:

| Chemical name | Partition coefficient | Bioconcentration factor (BCF) |
|---------------|-----------------------|-------------------------------|
|---------------|-----------------------|-------------------------------|

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|                                |       |        |
|--------------------------------|-------|--------|
| Ethyl alcohol<br>64-17-5       | -0.35 | 0.66   |
| Isopropyl alcohol<br>67-63-0   | 0.05  | < 500  |
| Methyl ethyl ketone<br>78-93-3 | 0.3   | <= 500 |

## 12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment: No information available

| Chemical name                  | PBT and vPvB assessment         |
|--------------------------------|---------------------------------|
| Ethyl alcohol<br>64-17-5       | The substance is not PBT / vPvB |
| Isopropyl alcohol<br>67-63-0   | The substance is not PBT / vPvB |
| Methyl ethyl ketone<br>78-93-3 | The substance is not PBT / vPvB |

## 12.6. Endocrine disrupting properties.

No information available.

## 12.7. Other adverse effects.

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products: Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Waste codes / waste designations according to EWC / AVV: 07 01 04\* (other organic solvents, washing liquids and mother liquors)

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR: UN1170  
RID: UN1170  
IMDG: UN1170  
IATA: UN1170

### 14.2 UN proper shipping name

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ADR: ETHANOL  
UN1170, ETHANOL, 3, II, (D/E)

RID: ETHANOL  
UN1170, ETHANOL, 3, II

IMDG: ETHANOL  
UN1170, ETHANOL, 3, II, (12°C C.C.)

IATA: ETHANOL  
UN1170, ETHANOL, 3, II

## 14.3. Transport hazard class(es)

ADR: 3  
Hazard label(s) 3  
Classification code F1  
ADR Hazard Id (Kemmler 33  
Number)  
Tunnel restriction code (D/E)  
Limited quantity (LQ) 1 L  
Excepted quantity E2

RID: 3  
Labels 3  
Classification code F1

IMDG: 3  
Hazard label(s) 3  
Limited quantity (LQ) 1 L  
Excepted quantity E2  
EmS-No. F-E, S-D

IATA: 3  
Hazard label(s) 3  
Excepted quantity E2

## 14.4. Packing group

ADR: II  
RID: II  
IMDG: II  
IATA: II

## 14.5. Environmental hazards

ADR: No  
RID: No  
IMDG: No  
IATA: No

## 14.6. Special precautions for user

ADR:  
Special Provisions: 144, 601  
RID:

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Special Provisions: 144, 601  
IMDG:  
Special Provisions: 144  
IATA:  
Special Provisions: A180, A3, A58  
ERG Code 3L

## 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

#### European Union:

Regulation (EC) No. 1907/2006 (Annex II - (EC) No. 2020/878) and Regulation (EC) No. 1272/2008

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

Take note of Directive 94/33/EC on the protection of young people at work:

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken

Authorizations and/or restrictions on use:

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

| Chemical name                  | Substance subject to authorization per REACH Annex XIV | Restricted substance per REACH Annex XVII |
|--------------------------------|--------------------------------------------------------|-------------------------------------------|
| Ethyl alcohol<br>64-17-5       |                                                        | 3.<br>40.<br>75.                          |
| Isopropyl alcohol<br>67-63-0   |                                                        | 3<br>40                                   |
| Methyl ethyl ketone<br>78-93-3 |                                                        | 3                                         |

Persistent Organic Pollutants:  
(EC) 2019/1021

Not applicable

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

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR):

| Chemical name            | Biocidal Products Regulation (EU) No 528/2012 (BPR) |
|--------------------------|-----------------------------------------------------|
| Ethyl alcohol<br>64-17-5 | PT1<br>PT2<br>PT4                                   |

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| Chemical name                | Biocidal Products Regulation (EU) No 528/2012 (BPR) |
|------------------------------|-----------------------------------------------------|
| Isopropyl alcohol<br>67-63-0 | PT2<br>PT4<br>PT1                                   |

volatile organic compounds (VOC) content:  
acc. reg. 2010/75/EC (20°C): 100 %  
acc. reg. 2004/42/EC (Decopaint): 100 %

## National regulations:

Denmark:

| Chemical name                  | Denmark - MAL                                         |
|--------------------------------|-------------------------------------------------------|
| Ethyl alcohol<br>64-17-5       | 7 m3/10 g substance MAL factor<br>>0 % by weight [1]  |
| Isopropyl alcohol<br>67-63-0   | 29 m3/10 g substance MAL factor<br>>0 % by weight [1] |
| Methyl ethyl ketone<br>78-93-3 | 48 m3/10 g substance MAL factor<br>>0 % by weight [1] |

Germany:

Water hazard class (WGK): slightly hazardous to water (WGK 1) - Classification according to AwSV

| Chemical name                  | WGK Classification (AwSV) | ID number |
|--------------------------------|---------------------------|-----------|
| Ethyl alcohol<br>64-17-5       | 1                         | 96        |
| Isopropyl alcohol<br>67-63-0   | 1                         | 135       |
| Methyl ethyl ketone<br>78-93-3 | 1                         | 150       |

TA Luft (German Air Pollution Control Regulation):  
org. substances (Ziffer 5.2.5): 95 - 100%

Storage class (TRGS 510): LGK 3 - Flammable liquids

France:

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

| Chemical name                  | French RG number |
|--------------------------------|------------------|
| Ethyl alcohol<br>64-17-5       | RG 84            |
| Isopropyl alcohol<br>67-63-0   | RG 84            |
| Methyl ethyl ketone<br>78-93-3 | RG 84            |

RG 84 - Conditions caused by occupational use of liquid organic solvents

Netherlands:

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| Chemical name                             | Ethyl alcohol                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| Netherlands - List of Carcinogens         | Present                                                                              |
| Netherlands - List of Reproductive Toxins | Fertility Category 1A<br>Development Category 1A<br>Can be harmful via breastfeeding |

Water contaminating class (Netherlands):

B4

Austria:

Flammable Liquids Regulations, VbF

Flammable liquids Cat. 2

Poland:

Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018 on the highest permissible concentrations and intensities of harmful factors for health in the work environment (Dz. U. 2018 item 1286, as amended)  
Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21; as amended)  
Act on chemical substances and their mixtures of February 25, 2011. (Journal of Laws No. 63, item 322; as amended)  
Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general regulations of safety and hygiene at work (Dz. U. of 2003, No. 169, item 1650; as amended).

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1:

100 %

Hungary:

Decree No 44/2000 (XII.27.) of the Ministry of Economic Affairs and Labour of the Republic of Hungary on certain procedures and activities  
Joint Decree No. 5/2020 ITM on Chemical Safety at Work 178/2017 (VII. 5.)  
Government Decree on the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) „A“ and „B“ of the European Agreement on Road Transport

## International Inventories:

|               |          |
|---------------|----------|
| TSCA          | Complies |
| DSL/NDSL      | Complies |
| EINECS/ELINCS | Complies |
| ENCS          | Complies |
| IECSC         | Complies |
| KECL          | Complies |
| PICCS         | Complies |
| AIIC          | Complies |
| NZIoC         | Complies |

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**NZIoC** - New Zealand Inventory of Chemicals

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing Chemicals Inventory

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

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## 15.2. Chemical safety assessment

Chemical Safety Report: No information available

## SECTION 16: Other information

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

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

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road  
(Accord européen relatif transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)

BCF: Bio-Concentration Factor

BOD(5): Biochemical oxygen demand (within 5 days)

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic, toxic for Reproduction

DIN: German Standards Institute / German industrial norm

DNEL: Derived No Effect Level

DOC: Dissolved organic carbon

EAK/ AVV: European waste catalogue/ waste directory-regulation

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

IC50: Inhibition Concentration 50%

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal Concentration 50% - LD50: Lethal dose 50%

MAK: Treshold limit values Germany

NLP: No Longer Polymers

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OECD: Organization for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic

PC: Product category

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation and Authorization of Chemicals

RID: Regulations concerning the international carriage of dangerous goods by rail

(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)

STEL: Short-term Exposure Limit

STP: Sewage treatment plant

SVHC: Substance of Very High Concern

TLV: Threshold Limit Value

TWA: Time Weighted Average

UN: United Nations

VOC: Volatile Organic Compounds

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vPvB: very persistent, very bioaccumulative

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling: Maximum limit value

\* Skin designation

| Classification procedure                                        |                    |
|-----------------------------------------------------------------|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity                                             | Calculation method |
| Acute dermal toxicity                                           | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapor                               | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitization                                       | Calculation method |
| Skin sensitization                                              | Calculation method |
| Mutagenicity                                                    | Calculation method |
| Carcinogenicity                                                 | Calculation method |
| Reproductive toxicity                                           | Calculation method |
| STOT - single exposure                                          | Calculation method |
| STOT - repeated exposure                                        | Calculation method |
| Acute aquatic toxicity                                          | Calculation method |
| Chronic aquatic toxicity                                        | Calculation method |
| Aspiration hazard                                               | Calculation method |
| Ozone                                                           | Calculation method |

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

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Revision date: 08-May-2026

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

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**End of Safety Data Sheet**