

# SAFETY DATA SHEET

## Cleaner M

### Section 1. Identification

|                                      |  |
|--------------------------------------|--|
| <b>GHS product identifier</b>        | : Cleaner M  |
| <b>Product code</b>                  | : 152250   |
| <b>Other means of identification</b> | : Not available.   |
| <b>Color</b>                         | :  Colorless. [Transparent] |
| <b>Product type</b>                  | : Liquid.  |

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

##### Identified uses

 Detergent liquids; Cleaning agent

##### Uses advised against

Not applicable.

|                           |  |
|---------------------------|--|
| <b>Supplier's details</b> | : WEICON GmbH & Co. KG<br>Königsberger Str. 255,<br>48157 Münster, Germany<br>phone:+49 251 93220,<br>email: info@weicon.de,<br>URL: www.weicon.de |
|---------------------------|--|

|  |                  |
|--|------------------|
| <b>e-mail address of person responsible for this SDS</b> | : msds@weicon.de |
|--|------------------|

|   |  |
|---|--|
| <b>Emergency telephone number (with hours of operation)</b> | : +1 202 464 2554<br>TRANSPORT (24 Hours/Day): +1 202 464 2554 |
|---|--|

### Section 2. Hazards identification

|                        |   |
|------------------------|---|
| <b>OSHA/HCS status</b> | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
|------------------------|---|

|   |                                  |
|---|----------------------------------|
| <b>Classification of the substance or mixture</b> | : FLAMMABLE LIQUIDS - Category 3 |
|---|----------------------------------|

#### GHS label elements

##### Hazard pictograms



|                    |           |
|--------------------|-----------|
| <b>Signal word</b> | : Warning |
|--------------------|-----------|

|                          |                                      |
|--------------------------|--------------------------------------|
| <b>Hazard statements</b> | : H226 - Flammable liquid and vapor. |
|--------------------------|--------------------------------------|

#### Precautionary statements

|                   |   |
|-------------------|---|
| <b>Prevention</b> | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|-------------------|---|

|                 |   |
|-----------------|---|
| <b>Response</b> | : P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
|-----------------|---|

|                |                   |
|----------------|-------------------|
| <b>Storage</b> | : Not applicable. |
|----------------|-------------------|

|                 |  |
|-----------------|--|
| <b>Disposal</b> | : P501 - Dispose of waste according to applicable legislation. |
|-----------------|--|

|   |               |
|---|---------------|
| <b>Hazards not otherwise classified</b> | : None known. |
|---|---------------|

## Section 2. Hazards identification

**Hazards identified when used** : No known significant effects or critical hazards.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

| Ingredient name      | Synonyms  | %         | Identifiers    |
|----------------------|---|-----------|----------------|
| 1-methoxy-2-propanol | monopropylene glycol methyl ether; 1-methoxypropan-2-ol; 2-Propanol, 1-methoxy-; Propylene glycol monomethyl ether; Dowtherm 209; Propylene glycol methyl ether; 1-Methoxy-2-hydroxypropane; 2-Methoxy-1-methylethanol; PGME; mixture containing by weight: — 69 % or more but not more than 71 % of 1-methoxypropan-2-ol (CAS RN 107-98-2), — 29 % or more but not more than 31 % of 2-methoxy-1-methylethyl acetate (CAS RN 108-65-6); methoxyisopropanol   | ≥10 - ≤30 | CAS: 107-98-2  |
| ethanol              | ethyl alcohol; ALCOHOL; Ethyl alcohol (Ethanol); EtOH; Grain alcohol; Cologne spirit; undenatured ethyl alcohol, of an alcoholic strength by volume of 80 % or more and containing up to 20 % activated carbon; aqueous solution, containing by weight - 25 % or more, but not more than 35 % of a copolymer of vinyl caprolactam, vinyl pyrrolidone, N,N-dimethylaminopropyl methacrylamide and 3-(methacryloylamino) propyllauryldimethylammonium chloride, - 10 % or more, but not more than 16 % of ethanol whether or not denatured with tert-butyl alcohol and/or denatonium benzoate; Blend, consisting of ethyl alcohol, ethyl acetate and aldehydes, higher alcohols and water; blend, consisting of ethyl alcohol, ethyl acetate and water; Denatured Alcohol | ≥5 - ≤10  | CAS: 64-17-5   |
| 1-propoxypropan-2-ol | 2-Propanol, 1-propoxy-; 1-Propoxy-2-propanol; solution containing by weight: - 0.1 % or more but not more than 15 % of alkoxygroups-containing siloxane polymer with alkyl or aryl substituents - 70 % or more of an organic solvent containing one or  | ≥1 - ≤5   | CAS: 1569-01-3 |

## Section 3. Composition/information on ingredients

|                 |   |         |               |
|-----------------|---|---------|---------------|
| 2-butoxyethanol | <p>more of propyleneglycoethylether (CAS RN 1569-02-4), propylene glycol monomethylether acetate (CAS RN 108-65-6) or propyleneglycol propylether (CAS RN 1569-01-3); PROPYLENE GLYCOL PROPYL ETHER; propylene glycol monopropyl ether; Polyoxyalkylene (C2-4,8) monoalkyl(or alkenyl) (C1-24) ether (n1-150); Alkylene(C2-8) glycol monoalkyl(C2-8) ether; 1,2-Propylene glycol 1-propyl ether; 2-HEPTANOL, 4-OXA-; Propoxypropan-2-ol</p> <p>ethylene glycol monobutyl ether; butyl cellosolve; Ethanol, 2-butoxy-; Butylglycol; Ethylene glycol, mono-n-butyl ester; Jeffersol EB; Ektasolve EB; Dowanol EB; Butyl oxitol; EGBE; Butyl cellosolve7</p> | ≥1 - ≤5 | CAS: 111-76-2 |
|-----------------|---|---------|---------------|

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

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

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

## Section 4. First aid measures

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

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

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Remark** :  Flammable

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.

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

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

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name             | Exposure limits  |
|-----------------------------|--|
| <p>1-methoxy-2-propanol</p> | <p><b>NIOSH REL (United States, 10/2020)</b><br/>           TWA 10 hours: 100 ppm.<br/>           TWA 10 hours: 360 mg/m<sup>3</sup>.<br/>           STEL 15 minutes: 150 ppm.<br/>           STEL 15 minutes: 540 mg/m<sup>3</sup>.</p> <p><b>CAL OSHA PEL (United States, 1/2025)</b><br/>           Absorbed through skin.<br/>           STEL 15 minutes: 540 mg/m<sup>3</sup>.<br/>           STEL 15 minutes: 150 ppm.<br/>           TWA 8 hours: 360 mg/m<sup>3</sup>.<br/>           TWA 8 hours: 100 ppm.</p> <p><b>OSHA PEL 1989 (United States, 3/1989)</b><br/>           TWA 8 hours: 100 ppm.<br/>           TWA 8 hours: 360 mg/m<sup>3</sup>.<br/>           STEL 15 minutes: 150 ppm.<br/>           STEL 15 minutes: 540 mg/m<sup>3</sup>.</p> <p><b>ACGIH TLV (United States, 1/2025) A4.</b><br/>           TWA 8 hours: 50 ppm.<br/>           TWA 8 hours: 184 mg/m<sup>3</sup>.<br/>           STEL 15 minutes: 100 ppm.<br/>           STEL 15 minutes: 369 mg/m<sup>3</sup>.</p> |
| <p>ethanol</p>              | <p><b>NIOSH REL (United States, 10/2020)</b><br/>           TWA 10 hours: 1000 ppm.<br/>           TWA 10 hours: 1900 mg/m<sup>3</sup>.</p> <p><b>CAL OSHA PEL (United States, 1/2025)</b><br/>           TWA 8 hours: 1900 mg/m<sup>3</sup>.<br/>           TWA 8 hours: 1000 ppm.</p> <p><b>OSHA PEL (United States, 5/2018)</b><br/>           TWA 8 hours: 1000 ppm.</p>   |

## Section 8. Exposure controls/personal protection

1-propoxypropan-2-ol  
2-butoxyethanol

TWA 8 hours: 1900 mg/m<sup>3</sup>.  
**OSHA PEL 1989 (United States, 3/1989)**  
 TWA 8 hours: 1000 ppm.  
 TWA 8 hours: 1900 mg/m<sup>3</sup>.  
**ACGIH TLV (United States, 1/2025) A3.**  
 STEL 15 minutes: 1000 ppm.  
 None.  
**NIOSH REL (United States, 10/2020)**  
 Absorbed through skin.  
 TWA 10 hours: 5 ppm.  
 TWA 10 hours: 24 mg/m<sup>3</sup>.  
**CAL OSHA PEL (United States, 1/2025)**  
 Absorbed through skin.  
 TWA 8 hours: 97 mg/m<sup>3</sup>.  
 TWA 8 hours: 20 ppm.  
**OSHA PEL (United States, 5/2018)** Absorbed through skin.  
 TWA 8 hours: 50 ppm.  
 TWA 8 hours: 240 mg/m<sup>3</sup>.  
**OSHA PEL 1989 (United States, 3/1989)**  
 Absorbed through skin.  
 TWA 8 hours: 25 ppm.  
 TWA 8 hours: 120 mg/m<sup>3</sup>.  
**ACGIH TLV (United States, 1/2025) A3.**  
 TWA 8 hours: 20 ppm.

### Biological exposure indices

| Ingredient name | Exposure indices   |
|-----------------|--|
| 2-butoxyethanol | <b>ACGIH BEI (United States, 1/2025)</b><br>BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift. |

### Appropriate engineering controls

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

### Environmental exposure controls

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

### Individual protection measures

#### Hygiene measures

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

#### Eye/face protection

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III ; 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter

## Section 9. Physical and chemical properties

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

### Appearance

- Physical state** : Liquid.
- Color** :  Colorless. [Transparent]
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : 11.4
- Melting point/freezing point** :  25.5°C (-13.9°F)
- Boiling point or initial boiling point and boiling range** :  80°C (176°F)
- Flash point** :  Closed cup: 49°C (120.2°F) [DIN EN ISO 13736] [Product does not sustain combustion.]
- Evaporation rate** : Not available.
- Flammability** :  Flammable
- Lower and upper explosion limit/flammability limit** :  Lower: 3.5% [Literature]  
Upper: 15% [Literature]
- Vapor pressure** :  3 kPa (<22.5018 mm Hg) [Calculated]
- Relative vapor density** : Not available.
- Relative density** : Not available.
- Density** : 0.98 g/cm<sup>3</sup> [20°C (68°F)]
- Solubility in water** : Not available.
- Miscible with water** : Yes.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): Not available.

### Particle characteristics

## Section 9. Physical and chemical properties

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### **Product/ingredient name**

1-methoxy-2-propanol

##### **Result**

**Rabbit - Dermal - LD50**

13 g/kg

**Rat - Oral - LD50**

6600 mg/kg

Toxic effects: Brain and Coverings - Other degenerative changes

Behavioral - General anesthetic Lung, Thorax, or Respiration -  
Dyspnea

ethanol

**Rat - Oral - LD50**

7 g/kg

**Rat - Inhalation - LC50 Vapor**

124700 mg/m<sup>3</sup> [4 hours]

1-propoxypropan-2-ol

**Rat - Oral - LD50**

2504 mg/kg

Toxic effects: Behavioral - Altered sleep time (including change in  
righting reflex) Behavioral - Ataxia

2-butoxyethanol

**Rabbit - Dermal - LD50**

3550 mg/kg

**Rat - Intraperitoneal - LD50**

220 mg/kg

**Rat - Intravenous - LD50**

307 mg/kg

**Rat - Unreported - LD50**

917 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed  
activity) Behavioral - Excitement Lung, Thorax, or Respiration -  
Other changes

**Mouse - Oral - LD50**

1230 mg/kg

Toxic effects: Behavioral - Altered sleep time (including change in  
righting reflex) Behavioral - Somnolence (general depressed  
activity) Other - Hair

**Mouse - Intraperitoneal - LD50**

536 mg/kg

**Mouse - Intravenous - LD50**

## Section 11. Toxicological information

1130 mg/kg

**Mouse - Unreported - LD50**

1050 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Lung, Thorax, or Respiration - Other changes

**Rabbit - Dermal - LD50**

220 mg/kg

**Rabbit - Intraperitoneal - LD50**

220 mg/kg

**Rabbit - Intravenous - LD50**

252 mg/kg

**Guinea pig - Oral - LD50**

1200 mg/kg

Toxic effects: Behavioral - General anesthetic Gastrointestinal - Other changes Kidney, Ureter, and Bladder - Other changes

**Guinea pig - Dermal - LD50**

230 ul/kg

**Mammal - species unspecified - Unreported - LD50**

1500 mg/kg

**Mouse - Oral - LD50**

1167 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes Blood - Other hemolysis with or without anemia

**Rat - Oral - LD50**

917 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes Blood - Other hemolysis with or without anemia

**Rabbit - Oral - LD50**

320 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes Blood - Other hemolysis with or without anemia

**Rat - Oral - LD50**

250 mg/kg

**Mouse - Subcutaneous - LDLo**

500 mg/kg

**Human - Oral - LDLo**

143 mg/kg

**Rat - Oral - LDLo**

1500 mg/kg

Toxic effects: Lung, Thorax, or Respiration - Changes in pulmonary vascular resistance

**Woman - Female - Oral - TDLo**

600 mg/kg

Toxic effects: Behavioral - Coma Lung, Thorax, or Respiration - Dyspnea Changes in Chemistry or Temperature - Metabolic acidosis

**Woman - Female - Oral - TDLo**

7813 ul/kg

Toxic effects: Behavioral - Coma Vascular - BP lowering not characterized in autonomic section Changes in Chemistry or Temperature - Metabolic acidosis

**Mammal - species unspecified - Intraperitoneal - TDLo**

100 mg/kg

Toxic effects: Endocrine - Change in gonadotropins

**Rat - Oral - TDLo**

500 mg/kg

Toxic effects: Blood - Other hemolysis with or without anemia

**Rat - Unreported - TDLo**

250 mg/kg

Toxic effects: Blood - Change in clotting factors

## Section 11. Toxicological information

### Man - Male - Oral - TDLo

132 mg/kg

Toxic effects: Behavioral - Sleep Kidney, Ureter, and Bladder - Hematuria Changes in Chemistry or Temperature - Metabolic acidosis

### Rat - Inhalation - LC50 Gas.

450 ppm [4 hours]

Toxic effects: Behavioral - Ataxia Gross Metabolite Changes - Weight loss or decreased weight gain

**Conclusion/Summary [Product]** : Not available.

### Skin corrosion/irritation

#### **Product/ingredient name**

-methoxy-2-propanol

ethanol

2-butoxyethanol

#### **Result**

##### **Rabbit - Skin - Mild irritant**

Amount/concentration applied: 500 mg

##### **Rabbit - Skin - Mild irritant**

Amount/concentration applied: 400 mg

##### **Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

##### **Rabbit - Skin - Mild irritant**

Amount/concentration applied: 500 mg

**Conclusion/Summary [Product]** : Non-irritating (EU).

### Serious eye damage/eye irritation

#### **Product/ingredient name**

-methoxy-2-propanol

ethanol

1-propoxypropan-2-ol

2-butoxyethanol

#### **Result**

##### **Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

##### **Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

##### **Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 0.066666667 minutes

Amount/concentration applied: 100 mg

##### **Rabbit - Eyes - Moderate irritant**

Amount/concentration applied: 100 uL

##### **Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 500 mg

##### **Rabbit - Eyes - Mild irritant**

Duration of treatment/exposure: 1 hours

Amount/concentration applied: 50 pph

##### **Rabbit - Eyes - Moderate irritant**

Amount/concentration applied: 100 mg

##### **Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

##### **Rabbit - Eyes - Severe irritant**

Amount/concentration applied: 100 mg

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

## Section 11. Toxicological information

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

Not available.

### **Skin**

**Conclusion/Summary [Product]** : Not available.

### **Respiratory**

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| ethanol                 | -    | 1    | -   |
| 2-butoxyethanol         | -    | 3    | -   |

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Specific target organ toxicity (single exposure)

#### **Product/ingredient name**

1-methoxy-2-propanol

#### **Result**

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
(Narcotic effects) - Category 3

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

## Section 11. Toxicological information

**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

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

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary [Product]** : Not available.

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

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Cleaner M               | 40000        | N/A            | N/A                      | 100                        | N/A                                 |
| 1-methoxy-2-propanol    | 6600         | 13000          | N/A                      | N/A                        | N/A                                 |
| ethanol                 | 7000         | N/A            | N/A                      | 124.7                      | N/A                                 |
| 1-propoxypropan-2-ol    | 2504         | 3550           | N/A                      | N/A                        | N/A                                 |
| 2-butoxyethanol         | 1200         | N/A            | N/A                      | 3                          | N/A                                 |

## Section 12. Ecological information

### Toxicity

**Product/ingredient name** : **Result**

## Section 12. Ecological information

ethanol

### Acute - LC50 - Fresh water

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*  
42 mg/l [4 days]

Effect: Mortality

### Acute - EC50 - Marine water

Algae - Green algae - *Ulva pertusa*  
17.921 mg/l [96 hours]

Effect: Reproduction

### Chronic - NOEC - Marine water

Algae - Green algae - *Ulva pertusa*  
4.995 mg/l [96 hours]

Effect: Reproduction

### Chronic - NOEC - Fresh water

Fish - Eastern mosquitofish - *Gambusia holbrooki* - Larvae  
Age: 3 days

0.375 µl/l [12 weeks]

Effect: Morphology

### Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate

Age: <24 hours

100 µl/l [21 days]

Effect: Mortality

### Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna*  
2 mg/l [48 hours]

Effect: Intoxication

2-butoxyethanol

### Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon crangon*  
800 mg/l [48 hours]

Effect: Mortality

### Acute - LC50 - Marine water

Fish - Inland silverside - *Menidia beryllina*  
1250 ppm [96 hours]

Effect: Mortality

**Conclusion/Summary [Product]** : Not available.

### Persistence and degradability

Not available.

**Conclusion/Summary [Product]** : Not available.

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| 1-methoxy-2-propanol    | <1                 | -   | Low       |
| ethanol                 | -0.35              | -   | Low       |
| 1-propoxypropan-2-ol    | 0.621              | -   | Low       |
| 2-butoxyethanol         | 0.81               | -   | Low       |

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | DOT<br>Classification | TDG<br>Classification | Mexico<br>Classification | IMDG           | IATA           |
|----------------------------|-----------------------|-----------------------|--------------------------|----------------|----------------|
| UN number                  | Not regulated.        | Not regulated.        | Not regulated.           | Not regulated. | Not regulated. |
| UN proper shipping name    | ☑                     | ☑                     | ☑                        | ☑              | ☑              |
| Transport hazard class(es) | ☑                     | ☑                     | ☑                        | ☑              | ☑              |
| Packing group              | -                     | -                     | -                        | -              | -              |
| Environmental hazards      | No.                   | No.                   | No.                      | No.            | No.            |

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

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### U.S. Federal regulations

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

### TSCA 12(b) - Chemical export notification

Not applicable.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

## Section 15. Regulatory information

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : FLAMMABLE LIQUIDS - Category 3

#### Composition/information on ingredients

| Name                 | %         | Classification   |
|----------------------|-----------|--|
| 1-methoxy-2-propanol | ≥10 - ≤30 | FLAMMABLE LIQUIDS - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3                             |
| ethanol              | ≥5 - ≤10  | FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A   |
| 1-propoxypropan-2-ol | ≥1 - ≤5   | FLAMMABLE LIQUIDS - Category 3<br>EYE IRRITATION - Category 2A   |
| 2-butoxyethanol      | ≥1 - ≤5   | ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 3<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A |

### SARA 313

|  | Product name    | CAS number | %       |
|--|-----------------|------------|---------|
| <b>Form R - Reporting requirements</b> | 2-butoxyethanol | 111-76-2   | ≥1 - ≤5 |
| <b>Supplier notification</b>           | 2-butoxyethanol | 111-76-2   | ≥1 - ≤5 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: PROPYLENE GLYCOL METHYL ETHER; ETHYL ALCOHOL; 2-BUTOXYETHANOL
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: PROPYLENE GLYCOL MONOMETHYL ETHER; ETHYL ALCOHOL; 2-BUTOXY ETHANOL
- Pennsylvania** : The following components are listed: 2-PROPANOL, 1-METHOXY-; ETHANOL; ETHANOL, 2-BUTOXY-

### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

## Section 15. Regulatory information

Not listed.

### Inventory list

|                                |   |
|--------------------------------|---|
| <b>Australia</b>               | : All components are listed or exempted.  |
| <b>Canada</b>                  | : All components are listed or exempted.  |
| <b>China</b>                   | : All components are listed or exempted.  |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory</b> : Not determined.   |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL)</b> : All components are listed or exempted.<br><b>Japan inventory (ISHL)</b> : Not determined. |
| <b>New Zealand</b>             | : All components are listed or exempted.  |
| <b>Philippines</b>             | : All components are listed or exempted.  |
| <b>Republic of Korea</b>       | : All components are listed or exempted.  |
| <b>Taiwan</b>                  | : All components are listed or exempted.  |
| <b>Thailand</b>                | : All components are listed or exempted.  |
| <b>Turkey</b>                  | : All components are listed or exempted.  |
| <b>United States</b>           | : All components are active or exempted.  |
| <b>Viet Nam</b>                | : All components are listed or exempted.  |

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | / | 0 |
| Flammability     |   | 2 |
| Physical hazards |   | 0 |
|                  |   |   |

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.**

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



### Procedure used to derive the classification

| Classification                 | Justification         |
|--------------------------------|-----------------------|
| FLAMMABLE LIQUIDS - Category 3 | On basis of test data |

### History

|                                       |             |
|---------------------------------------|-------------|
| <b>Date of printing</b>               | : 2/3/2026  |
| <b>Date of issue/Date of revision</b> | : ***       |
| <b>Date of previous issue</b>         | : 11/4/2025 |
| <b>Version</b>                        | : 1.5       |

## Section 16. Other information

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
DOT = Department of Transportation  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
IMO = International Maritime Organization  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
N/A = Not available  
SGG = Segregation Group  
TDG = Transportation of Dangerous Goods  
UN = United Nations

### References

: Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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