acc. to 29 CFR 1910.1200 App D

# **Oxalic Acid Reagent**

Version number: 1.0 Date of compilation: 2024-01-18

### **SECTION 1: Identification**

#### 1.1 Product identifier

Trade name Oxalic Acid Reagent

Product code(s) SR4500SS

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

Relevant identified uses laboratory and analytical use

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

AquaPhoenix Scientific, Inc 860 Gitts Run Road Hanover PA 17331 United States

Telephone: (717) 632-1291

e-mail: info@aquaphoenixsci.com

### 1.4 Emergency telephone number

Emergency information service ChemTel Inc. (800) 255-3924 (North America)

+1 (813) 248-0585 (International)

### **SECTION 2: Hazard(s) identification**

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class                                     | Category | Hazard class and cat-<br>egory | Hazard state-<br>ment |
|---------|--|----------|--------------------------------|-----------------------|
| A.10    | acute toxicity (oral)                            | 3        | Acute Tox. 3                   | H301                  |
| A.1D    | acute toxicity (dermal)                          | 3        | Acute Tox. 3                   | H311                  |
| A.1I    | acute toxicity (inhal.)                          | 3        | Acute Tox. 3                   | H331                  |
| A.3     | serious eye damage/eye irritation                | 1        | Eye Dam. 1                     | H318                  |
| A.8     | specific target organ toxicity - single exposure | 1        | STOT SE 1                      | H370                  |
| B.6     | flammable liquid                                 | 2        | Flam. Liq. 2                   | H225                  |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Immediate effects can be expected after short-term exposure. The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

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### - Pictograms

GHS02, GHS05, GHS06,

GHS08









#### - Hazard statements

H225 Highly flammable liquid and vapor.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H318 Causes serious eye damage. H370 Causes damage to organs.

### - Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection. P301+P310 If swallowed: Immediately call a poison center/doctor.

P302+P352 If on skin: Wash with plenty of water.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P362 Take off contaminated clothing and wash before reuse.

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

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

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

methanol, oxalic acid, dihydrate

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq$  0.1%.

### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq$  0.1%.

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

#### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

| Name of substance      | Identifier          | Wt% | Classification acc. to GHS   | Pictograms |
|------------------------|---------------------|-----|--|------------|
| Deionized water        | CAS No<br>7732-18-5 | 50  | not classified   | none       |
| Methanol               | CAS No<br>67-56-1   | 35  | Acute Tox. 3 / H301<br>Acute Tox. 3 / H311<br>Acute Tox. 3 / H331<br>STOT SE 1 / H370<br>Flam. Liq. 2 / H225 |            |
| Oxalic acid, dihydrate | CAS No<br>6153-56-6 | 15  | Acute Tox. 4 / H302<br>Acute Tox. 4 / H312<br>Eye Dam. 1 / H318  | <b>(1)</b> |

For full text of abbreviations: see SECTION 16.

### **SECTION 4: First-aid measures**

### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

### Following skin contact

Wash with plenty of soap and water.

### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

# Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

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# **SECTION 5: Fire-fighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

### **5.3** Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

#### Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

### Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

#### Control of the effects

#### Protect against external exposure, such as

frost

- Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

### SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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# Occupational exposure limit values (Workplace Exposure Limits)

| Coun-<br>try | Name of agent                | CAS No    | Identi-<br>fier | TWA<br>[ppm]  | TWA<br>[mg/m³] | STEL<br>[ppm] | STEL<br>[mg/m³] | Ceiling-C<br>[ppm] | Ceiling-C<br>[mg/m³] | Nota-<br>tion | Source                  |
|--------------|------------------------------|-----------|-----------------|---------------|----------------|---------------|-----------------|--------------------|----------------------|---------------|-------------------------|
| US           | oxalic acid                  | 144-62-7  | PEL (CA)        |               | 1              |               | 2               |                    |                      |               | Cal/<br>OSHA<br>PEL     |
| US           | oxalic acid                  | 144-62-7  | REL             |               | 1<br>(10 h)    |               | 2               |                    |                      |               | NIOSH<br>REL            |
| US           | oxalic acid                  | 144-62-7  | PEL             |               | 1              |               |                 |                    |                      |               | 29 CFR<br>1910.100<br>0 |
| US           | Oxalic acid, anhyd-<br>rous  | 144-62-7  | TLV®            |               | 1              |               | 2               |                    |                      |               | ACGIH®<br>2023          |
| US           | oxalic acid di-<br>hydrate   | 6153-56-6 | TLV®            |               | 1              |               | 2               |                    |                      |               | ACGIH®<br>2023          |
| US           | methanol                     | 67-56-1   | TLV®            | 200           |                | 250           |                 |                    |                      | Н             | ACGIH®<br>2023          |
| US           | methyl alcohol               | 67-56-1   | REL             | 200<br>(10 h) | 260<br>(10 h)  | 250           | 325             |                    |                      |               | NIOSH<br>REL            |
| US           | methyl alcohol               | 67-56-1   | PEL             | 200           | 260            |               |                 |                    |                      |               | 29 CFR<br>1910.100<br>0 |
| US           | methyl alcohol<br>(methanol) | 67-56-1   | PEL (CA)        | 200           | 260            | 250           | 325             | 1,000              |                      |               | Cal/<br>OSHA<br>PEL     |

Notation

STEL

Ceiling-C ceiling value is a limit value above which exposure should not occur

absorbed through the skin

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period

(unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified TWA

### Biological limit values

| Country | Name of agent | Parameter | Notation | Identifier | Value   | Source      |
|---------|---------------|-----------|----------|------------|---------|-------------|
| US      | methanol      | methanol  |          | BEI®       | 15 mg/l | ACGIH® 2023 |

### Relevant DNELs of components

| Name of substance | CAS No  | Endpoint | Threshold<br>level    | Protection goal, route of exposure | Used in           | Exposure time                   |
|-------------------|---------|----------|-----------------------|------------------------------------|-------------------|---------------------------------|
| methanol          | 67-56-1 | DNEL     | 130 mg/m³             | human, inhalatory                  | worker (industry) | chronic - systemic ef-<br>fects |
| methanol          | 67-56-1 | DNEL     | 130 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic ef-<br>fects   |
| methanol          | 67-56-1 | DNEL     | 130 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects         |

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# Relevant DNELs of components

| Name of substance      | CAS No    | Endpoint | Threshold<br>level    | Protection goal, route of exposure | Used in           | Exposure time                   |
|------------------------|-----------|----------|-----------------------|------------------------------------|-------------------|---------------------------------|
| methanol               | 67-56-1   | DNEL     | 130 mg/m³             | human, inhalatory                  | worker (industry) | acute - local effects           |
| methanol               | 67-56-1   | DNEL     | 20 mg/kg bw/<br>day   | human, dermal                      | worker (industry) | chronic - systemic ef-<br>fects |
| methanol               | 67-56-1   | DNEL     | 20 mg/kg bw/<br>day   | human, dermal                      | worker (industry) | acute - systemic ef-<br>fects   |
| oxalic acid, dihydrate | 6153-56-6 | DNEL     | 3.11 mg/m³            | human, inhalatory                  | worker (industry) | chronic - systemic ef-<br>fects |
| oxalic acid, dihydrate | 6153-56-6 | DNEL     | 0.882 mg/kg<br>bw/day | human, dermal                      | worker (industry) | chronic - systemic ef-<br>fects |

# Relevant PNECs of components

| Name of substance      | CAS No    | Endpoint | Threshold<br>level                 | Organism                   | Environmental compartment       | Exposure time                     |
|------------------------|-----------|----------|------------------------------------|----------------------------|---------------------------------|-----------------------------------|
| methanol               | 67-56-1   | PNEC     | 20.8 <sup>mg</sup> / <sub>l</sub>  | aquatic organisms          | freshwater                      | short-term (single instance)      |
| methanol               | 67-56-1   | PNEC     | 2.08 <sup>mg</sup> / <sub>l</sub>  | aquatic organisms          | marine water                    | short-term (single instance)      |
| methanol               | 67-56-1   | PNEC     | 100 <sup>mg</sup> / <sub>l</sub>   | aquatic organisms          | sewage treatment<br>plant (STP) | short-term (single in-<br>stance) |
| methanol               | 67-56-1   | PNEC     | 77 <sup>mg</sup> / <sub>kg</sub>   | aquatic organisms          | freshwater sediment             | short-term (single instance)      |
| methanol               | 67-56-1   | PNEC     | 7.7 <sup>mg</sup> / <sub>kg</sub>  | aquatic organisms          | marine sediment                 | short-term (single instance)      |
| methanol               | 67-56-1   | PNEC     | 100 <sup>mg</sup> / <sub>kg</sub>  | terrestrial organ-<br>isms | soil                            | short-term (single instance)      |
| oxalic acid, dihydrate | 6153-56-6 | PNEC     | 0.16 <sup>mg</sup> / <sub>l</sub>  | aquatic organisms          | freshwater                      | short-term (single instance)      |
| oxalic acid, dihydrate | 6153-56-6 | PNEC     | 0.016 <sup>mg</sup> / <sub>l</sub> | aquatic organisms          | marine water                    | short-term (single instance)      |
| oxalic acid, dihydrate | 6153-56-6 | PNEC     | 1,550 <sup>mg</sup> / <sub>l</sub> | aquatic organisms          | sewage treatment<br>plant (STP) | short-term (single instance)      |

# 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

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### Skin protection

### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

### **Appearance**

| Physical state | liquid                |
|----------------|-----------------------|
| Color          | colorless             |
| Particle       | not relevant (liquid) |
| Odor           | like alcohol          |

### Other safety parameters

| pH (value)                              | not determined                                |
|---|---|
| Melting point/freezing point            | not determined                                |
| Initial boiling point and boiling range | > 64.7 °C at 1,013 hPa                        |
| Flash point                             | > 9.7 °C at 1,013 hPa                         |
| Evaporation rate                        | not determined                                |
| Flammability (solid, gas)               | not relevant, (fluid)                         |
| Vapor pressure                          | < 169.27 hPa at 25 °C                         |
| Density                                 | not determined                                |
| Vapor density                           | this information is not available             |
| Relative density                        | information on this property is not available |

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### Solubility(ies)

| - Water solubility | miscible in any proportion |
|--------------------|----------------------------|
|--------------------|----------------------------|

### Partition coefficient

| - n-octanol/water (log KOW) | this information is not available                        |
|-----------------------------|--|
| Auto-ignition temperature   | > 455 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity                   | not determined   |
| Explosive properties        | none   |
| Oxidizing properties        | none   |

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

#### If heated:

Risk of ignition

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

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

### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

- Acute toxicity estimate (ATE)

 $\begin{array}{lll} \text{Oral} & 263.16 \ ^{\text{mg}}/_{\text{kg}} \\ \text{Dermal} & 857.14 \ ^{\text{mg}}/_{\text{kg}} \\ \text{Inhalation: vapor} & 8.5714 \ ^{\text{mg}}/_{\text{l}}/4h \end{array}$ 

### Acute toxicity estimate (ATE) of components

| Name of substance      | CAS No    | Exposure route    | ATE                                |
|------------------------|-----------|-------------------|------------------------------------|
| methanol               | 67-56-1   | oral              | 100 <sup>mg</sup> / <sub>kg</sub>  |
| methanol               | 67-56-1   | dermal            | 300 <sup>mg</sup> / <sub>kg</sub>  |
| methanol               | 67-56-1   | inhalation: vapor | 3 <sup>mg</sup> / <sub>l</sub> /4h |
| oxalic acid, dihydrate | 6153-56-6 | oral              | 500 <sup>mg</sup> / <sub>kg</sub>  |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

# Specific target organ toxicity - single exposure

Causes damage to organs.

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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# **SECTION 12: Ecological information**

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq$  0.1%.

#### 12.7 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

### Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### **SECTION 14: Transport information**

### 14.1 UN number

| DOT       | UN 1230 |
|-----------|---------|
| IMDG-Code | UN 1230 |
| ICAO-TI   | UN 1230 |

### 14.2 UN proper shipping name

| DOT       | Methanol |
|-----------|----------|
| IMDG-Code | METHANOL |

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| ICAO-TI | Methanol |
|---------|----------|
|         |          |

# 14.3 Transport hazard class(es)

DOT 3 (6.1)
IMDG-Code 3 (6.1)
ICAO-TI 3 (6.1)

### 14.4 Packing group

DOT II
IMDG-Code II
ICAO-TI II

# **14.5 Environmental hazards** non-environmentally hazardous acc. to the danger-

ous goods regulations

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

# **Information for each of the UN Model Regulations**

### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration UN1230, Methanol, 3 (6.1), II Reportable quantity (RQ) 14,286 lbs (6,485.7 kg) (methanol)

Danger label(s) 3+6.1





Special provisions (SP) IB2, T7, TP2

ERG No 131

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant -

Danger label(s) 3+6.1





Special provisions (SP) 279

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category B

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## International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 3+6.1



Special provisions (SP)

Excepted quantities (EQ)

Limited quantities (LQ)

1 L

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations specific for the product in question

**National regulations (United States)** 

**Toxic Substance Control Act (TSCA)** all ingredients are listed (ACTIVE) or exempt from

listing

### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

| Name of substance | CAS No  | Remarks | Effective date |
|-------------------|---------|---------|----------------|
| methanol          | 67-56-1 |         | 1986-12-31     |

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No  | Remarks | Statutory code | Final RQ pounds (Kg) |
|-------------------|---------|---------|----------------|----------------------|
| methanol          | 67-56-1 |         | 3<br>4         | 5000 (2270)          |

#### Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

#### Clean Air Act

none of the ingredients are listed

# **Right to Know Hazardous Substance List**

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### - Hazardous Substance List (NJ-RTK)

| Name of substance      | CAS No   | Remarks | Classifications |
|------------------------|----------|---------|-----------------|
| methanol               | 67-56-1  |         | TE<br>F3        |
| oxalic acid, dihydrate | 144-62-7 |         | СО              |

Legend

CO F3 TE Corrosive

Flammable - Third Degree

Teratogenic

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and **Toxic Enforcement Act of 1987**

| Proposition 65 List of chemicals |         |         |                      |
|----------------------------------|---------|---------|----------------------|
| Name acc. to inventory           | CAS No  | Remarks | Type of the toxicity |
| methanol                         | 67-56-1 |         | developmental        |

# Industry or sector specific available guidance(s)

### **NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description  |
|---------------------|--------|--|
| Chronic             | /      | none   |
| Health              | 3      | major injury likely unless prompt action is taken and medical treatment is given   |
| Flammability        | 3      | material that can be ignited under almost all ambient temperature conditions   |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |  |

### **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category       | Degree of<br>hazard | Description  |
|----------------|---------------------|--|
| Flammability   | 3                   | material that can be ignited under almost all ambient temperature conditions     |
| Health         | 3                   | material that, under emergency conditions, can cause serious or permanent injury |
| Instability    | 0                   | material that is normally stable, even under fire conditions                     |
| Special hazard |                     |  |

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#### **National inventories**

| Country | Inventory  | Status                              |
|---------|------------|-------------------------------------|
| AU      | AIIC       | all ingredients are listed          |
| CA      | DSL        | all ingredients are listed          |
| CN      | IECSC      | all ingredients are listed          |
| EU      | ECSI       | all ingredients are listed          |
| EU      | REACH Reg. | all ingredients are listed          |
| JP      | CSCL-ENCS  | all ingredients are listed          |
| JP      | ISHA-ENCS  | not all ingredients are listed      |
| KR      | KECI       | all ingredients are listed          |
| MX      | INSQ       | all ingredients are listed          |
| NZ      | NZIoC      | all ingredients are listed          |
| PH      | PICCS      | all ingredients are listed          |
| TR      | CICR       | not all ingredients are listed      |
| TW      | TCSI       | all ingredients are listed          |
| VN      | NCI        | all ingredients are listed          |
| US      | TSCA       | all ingredients are listed (ACTIVE) |

Legend

AIIC CICR CSCL-ENCS DSL Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS)

**ECSI** 

Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances **IECSC** 

INSQ

Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korea Existing Chemicals Inventory
National Chemical Inventory
New Zealand Inventory of Chemicals ISHA-ENCS KECI

NCI NZIoC

Philippine Inventory of Chemicals and Chemical Substances (PICCS) **PICCS** 

REACH Reg. REACH registered substances

TCSI Taiwan Chemical Substance Inventory

**TSCA** Toxic Substance Control Act

### **Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

# SECTION 16: Other information, including date of preparation or last revision

### **Abbreviations and acronyms**

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| Abbr.            | Descriptions of used abbreviations  |
|------------------|---|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)   |
| 49 CFR US DOT    | 49 CFR U.S. Department of Transportation  |
| ACGIH® 2023      | From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement |
| Acute Tox.       | Acute toxicity  |
| ATE              | Acute Toxicity Estimate   |
| Cal/OSHA PEL     | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)  |
| CAS              | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C        | Ceiling value   |
| DGR              | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL             | Derived No-Effect Level   |
| DOT              | Department of Transportation (USA)  |
| ED               | Endocrine disruptor   |
| EINECS           | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS           | European List of Notified Chemical Substances   |
| EmS              | Emergency Schedule  |
| ERG No           | Emergency Response Guidebook - Number   |
| Eye Dam.         | Seriously damaging to the eye   |
| Eye Irrit.       | Irritant to the eye   |
| Flam. Liq.       | Flammable liquid  |
| GHS              | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA             | International Air Transport Association   |
| IATA/DGR         | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO             | International Civil Aviation Organization   |
| ICAO-TI          | Technical instructions for the safe transport of dangerous goods by air   |
| IMDG             | International Maritime Dangerous Goods Code   |
| IMDG-Code        | International Maritime Dangerous Goods Code   |
| NIOSH REL        | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)   |
| NLP              | No-Longer Polymer   |
| NPCA-HMIS® III   | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition   |
| OSHA             | Occupational Safety and Health Administration (United States)   |
| РВТ              | Persistent, Bioaccumulative and Toxic   |

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| Abbr.   | Descriptions of used abbreviations               |
|---------|--|
| PEL     | Permissible exposure limit                       |
| PNEC    | Predicted No-Effect Concentration                |
| ppm     | Parts per million                                |
| STEL    | Short-term exposure limit                        |
| STOT SE | Specific target organ toxicity - single exposure |
| TLV®    | Threshold Limit Values                           |
| TWA     | Time-weighted average                            |
| vPvB    | Very Persistent and very Bioaccumulative         |

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

# **Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                               |
|------|------------------------------------|
| H225 | Highly flammable liquid and vapor. |
| H301 | Toxic if swallowed.                |
| H302 | Harmful if swallowed.              |
| H311 | Toxic in contact with skin.        |
| H312 | Harmful in contact with skin.      |
| H318 | Causes serious eye damage.         |
| H331 | Toxic if inhaled.                  |
| H370 | Causes damage to organs.           |

# Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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