

# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

## 1. Identification

**Product identifier:** Reagent Alcohol

### Other means of identification

**Product No.:** 6183, 7019, 7284, 9229, 9401, A478

### Recommended restrictions

**Recommended use:** For Laboratory, Research or Manufacturing Use.

**Restrictions on use:** Not determined.

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

Company Name: Avantor Performance Materials, LLC  
Address: 100 Matsonford Rd, Suite 200  
Radnor, PA 19087

Telephone: Customer Service: 855-282-6867

Contact Person: Product Information Compliance  
E-mail: info@avantormaterials.com

### Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 2

#### Health Hazards

Acute toxicity (Oral) Category 4  
Acute toxicity (Dermal) Category 4  
Acute toxicity (Inhalation - vapor) Category 4  
Serious Eye Damage/Eye Irritation Category 2A  
Toxic to reproduction Category 2  
Specific Target Organ Toxicity -  
Single Exposure Category 1<sup>1</sup>

#### Target Organs

1. Central nervous system, Eyes

#### Unknown toxicity - Health

Acute toxicity, oral 0 %  
Acute toxicity, dermal 88 %  
Acute toxicity, inhalation, vapor 94 %

### Label Elements

**Hazard Symbol:**



**Signal Word:**

Danger

**Hazard Statement:**

Highly flammable liquid and vapor.  
Harmful if swallowed.  
Harmful in contact with skin.  
Harmful if inhaled.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Suspected of damaging fertility.  
May cause damage to organs.

**Precautionary Statements**

**Prevention:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

**Response:**

In case of fire: Use water spray, foam, dry powder or carbon dioxide for extinction. IF exposed: Call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

**Storage:**

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):**

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

**3. Composition/information on ingredients**

## Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|-------------------|------------|-------------------------|
| Ethanol           | 64-17-5    | 88 - 92.5%              |
| Isopropyl alcohol | 67-63-0    | 4 - 6%                  |
| Methyl alcohol    | 67-56-1    | 2.5 - 10%               |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

|                             |                                                                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information:</b> | Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.                                                       |
| <b>Ingestion:</b>           | Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.                                                                                                    |
| <b>Inhalation:</b>          | Move to fresh air. Get medical attention if symptoms occur.                                                                                                     |
| <b>Skin Contact:</b>        | Wash skin thoroughly with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.                                     |
| <b>Eye contact:</b>         | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention. |

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

|                  |                                                                                            |
|------------------|--------------------------------------------------------------------------------------------|
| <b>Symptoms:</b> | Harmful if inhaled. Harmful if swallowed. Irritating to eyes, respiratory system and skin. |
| <b>Hazards:</b>  | None known.                                                                                |

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

|                   |                                                 |
|-------------------|-------------------------------------------------|
| <b>Treatment:</b> | Symptoms may be delayed. Treat symptomatically. |
|-------------------|-------------------------------------------------|

## 5. Fire-fighting measures

|                              |                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>General Fire Hazards:</b> | In case of fire and/or explosion do not breathe fumes. Vapors may cause a flash fire or ignite explosively. |
|------------------------------|-------------------------------------------------------------------------------------------------------------|

### Suitable (and unsuitable) extinguishing media

|                                        |                                                                    |
|----------------------------------------|--------------------------------------------------------------------|
| <b>Suitable extinguishing media:</b>   | Water spray, foam, dry powder or carbon dioxide.                   |
| <b>Unsuitable extinguishing media:</b> | Avoid water in straight hose stream; will scatter and spread fire. |

|                                                    |                                                                                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific hazards arising from the chemical:</b> | Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Special protective equipment and precautions for firefighters

|                                          |                                                                                                                                                                                                          |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special fire fighting procedures:</b> | Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk. |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Special protective equipment for fire-fighters:**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. Accidental release measures**
**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Methods and material for containment and cleaning up:**

In case of leakage, eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Collect in a non-combustible container for prompt disposal. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures:**

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

**Environmental Precautions:**

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. Handling and storage**
**Precautions for safe handling:**

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Use personal protective equipment as required. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

**Conditions for safe storage, including any incompatibilities:**

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

**8. Exposure controls/personal protection**
**Control Parameters**
**Occupational Exposure Limits**

| Chemical Identity | Type   | Exposure Limit Values | Source                                                                                    |
|-------------------|--------|-----------------------|-------------------------------------------------------------------------------------------|
| Ethanol           | STEL   | 1,000 ppm             | US. ACGIH Threshold Limit Values (2011)                                                   |
|                   | REL    | 1,000 ppm 1,900 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010)                                        |
|                   | PEL    | 1,000 ppm 1,900 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)               |
|                   | TWA    | 1,000 ppm 1,900 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                                            |
|                   | TWA    | 1,000 ppm 1,900 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                    |
|                   | AN ESL | 1,000 ppb             | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010) |
|                   | ST ESL | 1,010 ppb             | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013) |
|                   | ST ESL | 1,910 µg/m3           | US. Texas. Effects Screening Levels (Texas                                                |

|                   |            |                                   |                                                                                            |
|-------------------|------------|-----------------------------------|--------------------------------------------------------------------------------------------|
|                   |            |                                   | Commission on Environmental Quality) (02 2013)                                             |
|                   | AN ESL     | 1,880 µg/m3                       | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)  |
|                   | TWA PEL    | 1,000 ppm 1,900 mg/m3             | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
| Isopropyl alcohol | TWA        | 200 ppm                           | US. ACGIH Threshold Limit Values (2011)                                                    |
|                   | STEL       | 400 ppm                           | US. ACGIH Threshold Limit Values (2011)                                                    |
|                   | REL        | 400 ppm 980 mg/m3                 | US. NIOSH: Pocket Guide to Chemical Hazards (2010)                                         |
|                   | STEL       | 500 ppm 1,225 mg/m3               | US. NIOSH: Pocket Guide to Chemical Hazards (2010)                                         |
|                   | PEL        | 400 ppm 980 mg/m3                 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)                |
|                   | STEL       | 500 ppm 1,225 mg/m3               | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                                             |
|                   | TWA        | 400 ppm 980 mg/m3                 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                                             |
|                   | STEL       | 500 ppm 1,225 mg/m3               | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                     |
|                   | TWA        | 400 ppm 980 mg/m3                 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                     |
|                   | ST ESL     | 2,000 ppb                         | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)  |
|                   | AN ESL     | 200 ppb                           | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)  |
|                   | ST ESL     | 4,920 µg/m3                       | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)  |
|                   | AN ESL     | 492 µg/m3                         | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)  |
|                   | STEL       | 500 ppm 1,225 mg/m3               | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
|                   | TWA PEL    | 400 ppm 980 mg/m3                 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
| Methyl alcohol    | TWA        | 200 ppm                           | US. ACGIH Threshold Limit Values (2011)                                                    |
|                   | STEL       | 250 ppm                           | US. ACGIH Threshold Limit Values (2011)                                                    |
|                   | SKIN_DES   | Can be absorbed through the skin. | US. ACGIH Threshold Limit Values (2011)                                                    |
|                   | STEL       | 325 mg/m3                         | US. NIOSH: Pocket Guide to Chemical Hazards (2010)                                         |
|                   | SKIN_DES   | Can be absorbed through the skin. | US. NIOSH: Pocket Guide to Chemical Hazards (2010)                                         |
|                   | REL        | 260 mg/m3                         | US. NIOSH: Pocket Guide to Chemical Hazards (2010)                                         |
|                   | PEL        | 260 mg/m3                         | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)                |
|                   | TWA        | 260 mg/m3                         | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                                             |
|                   | STEL       | 325 mg/m3                         | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                                             |
|                   | SKIN_FINAL | Can be absorbed through the skin. | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                                             |

### Biological Limit Values

| Chemical Identity                                                             | Exposure Limit Values | Source              |
|-------------------------------------------------------------------------------|-----------------------|---------------------|
| Isopropyl alcohol (acetone: Sampling time: End of shift at end of work week.) | 40 mg/l (Urine)       | ACGIH BEI (03 2013) |
| Methyl alcohol (methanol: Sampling time: End of shift.)                       | 15 mg/l (Urine)       | ACGIH BEL (03 2013) |

**Appropriate Engineering Controls**

No data available.

## Individual protection measures, such as personal protective equipment

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information:</b>    | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment. |
| <b>Eyeface protection:</b>     | Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Skin Protection</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hand Protection:</b>        | Chemical resistant gloves                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Other:</b>                  | Wear suitable protective clothing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Respiratory Protection:</b> | In case of inadequate ventilation use suitable respirator.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Hygiene measures:</b>       | Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.                                                                                                                                                                                                                        |

## 9. Physical and chemical properties

### Appearance

|                                                              |                    |
|--------------------------------------------------------------|--------------------|
| <b>Physical state:</b>                                       | Liquid             |
| <b>Form:</b>                                                 | Liquid             |
| <b>Color:</b>                                                | Colorless          |
| <b>Odor:</b>                                                 | Mild pleasant odor |
| <b>Odor threshold:</b>                                       | No data available. |
| <b>pH:</b>                                                   | No data available. |
| <b>Melting point/freezing point:</b>                         | -114 °C            |
| <b>Initial boiling point and boiling range:</b>              | 78 °C              |
| <b>Flash Point:</b>                                          | 13 °C              |
| <b>Evaporation rate:</b>                                     | No data available. |
| <b>Flammability (solid, gas):</b>                            | No data available. |
| <b>Upper/lower limit on flammability or explosive limits</b> |                    |
| <b>Flammability limit - upper (%):</b>                       | 19 %(V)            |
| <b>Flammability limit - lower (%):</b>                       | 3.3 %(V)           |
| <b>Explosive limit - upper (%):</b>                          | No data available. |
| <b>Explosive limit - lower (%):</b>                          | No data available. |
| <b>Vapor pressure:</b>                                       | 8.1 kPa            |
| <b>Vapor density:</b>                                        | No data available. |
| <b>Density:</b>                                              | 0.79 g/ml (20 °C)  |
| <b>Relative density:</b>                                     | 0.79 (20 °C)       |
| <b>Solubility(ies)</b>                                       |                    |
| <b>Solubility in water:</b>                                  | Soluble            |
| <b>Solubility (other):</b>                                   | No data available. |
| <b>Partition coefficient (n-octanol/water):</b>              | No data available. |
| <b>Auto-ignition temperature:</b>                            | 422 °C             |
| <b>Decomposition temperature:</b>                            | No data available. |
| <b>Viscosity:</b>                                            | No data available. |

## 10. Stability and reactivity

|                                            |                                                                                                        |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Reactivity:</b>                         | No dangerous reaction known under conditions of normal use.                                            |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.                                                            |
| <b>Possibility of hazardous reactions:</b> | Hazardous polymerization does not occur.                                                               |
| <b>Conditions to avoid:</b>                | Heat, sparks, flames. Contact with incompatible materials.                                             |
| <b>Incompatible Materials:</b>             | Strong oxidizing agents. Alkali metals. Inorganic salts. Organic - organometallic. Inorganic hydrides. |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition may release oxides of carbon.                                                    |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| <b>Inhalation:</b>   | Harmful if inhaled. May cause irritation to the respiratory system. |
| <b>Skin Contact:</b> | Harmful if absorbed through skin. Causes mild skin irritation.      |
| <b>Eye contact:</b>  | Causes serious eye irritation.                                      |
| <b>Ingestion:</b>    | Harmful if swallowed.                                               |

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

|                   |                              |
|-------------------|------------------------------|
| <b>Oral</b>       |                              |
| <b>Product:</b>   | ATEmix (Rat): 1,818.18 mg/kg |
| <b>Dermal</b>     |                              |
| <b>Product:</b>   | No data available.           |
| <b>Inhalation</b> |                              |
| <b>Product:</b>   | No data available.           |

|                               |                    |
|-------------------------------|--------------------|
| <b>Repeated dose toxicity</b> |                    |
| <b>Product:</b>               | No data available. |

|                                  |                              |
|----------------------------------|------------------------------|
| <b>Skin Corrosion/Irritation</b> |                              |
| <b>Product:</b>                  | Causes mild skin irritation. |

|                                          |                                |
|------------------------------------------|--------------------------------|
| <b>Serious Eye Damage/Eye Irritation</b> |                                |
| <b>Product:</b>                          | Causes serious eye irritation. |

|                                          |                        |
|------------------------------------------|------------------------|
| <b>Respiratory or Skin Sensitization</b> |                        |
| <b>Product:</b>                          | Not a skin sensitizer. |

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Carcinogenicity</b> |                                                            |
| <b>Product:</b>        | This substance has no evidence of carcinogenic properties. |

## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Ethanol Overall evaluation: 1. Carcinogenic to humans.

## US. National Toxicology Program (NTP) Report on Carcinogens:

Ethanol Known To Be Human Carcinogen.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

## Germ Cell Mutagenicity

### In vitro

**Product:** No mutagenic components identified

### In vivo

**Product:** No mutagenic components identified

## Reproductive toxicity

**Product:** May damage fertility or the unborn child.

## Specific Target Organ Toxicity - Single Exposure

**Product:** Central nervous system. Eyes. Respiratory tract irritation.

## Specific Target Organ Toxicity - Repeated Exposure

**Product:** None known.

### Target Organs

Specific Target Organ Toxicity - Single Exposure: Central nervous system, Eyes

## Aspiration Hazard

**Product:** Not classified

**Other effects:** None known.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

### Fish

**Product:** No data available.

### Specified substance(s):

Ethanol  
LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 11,850 - 20,100 mg/l  
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 13,480 - 29,400 mg/l  
LC 50 (Carp (Leuciscus idus melanotus), 48 h): 8,140 mg/l  
EC 50 (Fathead minnow (Pimephales promelas); Rainbow trout (Oncorhynchus mykiss), 96 h): 12,900 - 28,900 mg/l  
EC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 13,000 mg/l

Isopropyl alcohol  
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 5,770 - 11,130 mg/l  
LC 50 (Harlequinfish, red rasbora (Rasbora heteromorpha), 96 h): 4,200

|                |                                                                                                   |
|----------------|---------------------------------------------------------------------------------------------------|
|                | mg/l                                                                                              |
|                | LC 50 (Bluegill ( <i>Lepomis macrochirus</i> ), 96 h): > 1,400 mg/l                               |
|                | LC 50 (Western mosquitofish ( <i>Gambusia affinis</i> ), 96 h): > 1,400 mg/l                      |
| Methyl alcohol | LC 50 (Bluegill ( <i>Lepomis macrochirus</i> ), 96 h): 15,400 mg/l                                |
|                | LC 50 (Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> ), 96 h): 19,500 - 20,700 mg/l |
|                | LC 50 (Fathead minnow ( <i>Pimephales promelas</i> ), 96 h): 28,500 - 30,400 mg/l                 |

#### Aquatic Invertebrates

**Product:** No data available.

#### Specified substance(s):

Ethanol  
EC 50 (Water flea (*Daphnia obtusa*), 48 h): 10,100 - 22,200 mg/l  
LC 50 (Water flea (*Daphnia magna*), 48 h): 7,560 - 15,386 mg/l  
LC 50 (*Ceriodaphnia dubia*, 48 h): 5,012 mg/l  
EC 50 (Water flea (*Daphnia magna*), 48 h): > 10,000 mg/l

Isopropyl alcohol  
EC 50 (*Daphnia magna*, 24 h): 9,714 mg/l  
LC 50 (Common shrimp, sand shrimp (*Crangon crangon*), 48 h): 900 - 1,950 mg/l

Methyl alcohol  
LC 50 (Cockle (*Cerastoderma edule*), 48 h): 1,000 mg/l  
EC 50 (Water flea (*Daphnia obtusa*), 48 h): 21,100 - 23,400 mg/l  
LC 50 (Water flea (*Daphnia magna*), 48 h): 2,461 - 4,395 mg/l

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

#### Persistence and Degradability

##### Biodegradation

**Product:** Expected to be readily biodegradable.

##### BOD/COD Ratio

**Product:** No data available.

#### Bioaccumulative potential

##### Bioconcentration Factor (BCF)

**Product:** No data available on bioaccumulation.

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

#### Specified substance(s):

Ethanol  
Log Kow: -0.31

Isopropyl alcohol  
Log Kow: 0.05

Methyl alcohol  
Log Kow: -0.77

#### Mobility in soil:

The product is water soluble and may spread in water systems.

**Other adverse effects:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

**Contaminated Packaging:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

#### DOT

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| UN Number:                    | UN 1987                                          |
| UN Proper Shipping Name:      | Alcohols, n.o.s.(Ethanol, Methanol, Isopropanol) |
| Transport Hazard Class(es)    |                                                  |
| Class:                        | 3                                                |
| Label(s):                     | 3                                                |
| Packing Group:                | II                                               |
| Marine Pollutant:             | No                                               |
| Special precautions for user: | Not determined.                                  |

#### IMDG

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| UN Number:                    | UN 1987                                          |
| UN Proper Shipping Name:      | ALCOHOLS, N.O.S.(ETHANOL, METHANOL, ISOPROPANOL) |
| Transport Hazard Class(es)    |                                                  |
| Class:                        | 3                                                |
| Label(s):                     | 3                                                |
| EmS No.:                      | F-E, S-D                                         |
| Packing Group:                | II                                               |
| Marine Pollutant:             | No                                               |
| Special precautions for user: | Not determined.                                  |

#### IATA

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| UN Number:                    | UN 1987                                          |
| Proper Shipping Name:         | Alcohols, n.o.s.(Ethanol, Methanol, Isopropanol) |
| Transport Hazard Class(es)    |                                                  |
| Class:                        | 3                                                |
| Label(s):                     | 3                                                |
| Packing Group:                | II                                               |
| Marine Pollutant:             | No                                               |
| Special precautions for user: | Not determined.                                  |

### 15. Regulatory information

#### US Federal Regulations

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Methyl alcohol           | 5000 lbs.                  |
| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
| Ethanol                  | 100 lbs.                   |
| Isopropyl alcohol        | 100 lbs.                   |
| Methyl alcohol           | 5000 lbs.                  |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**
**Hazard categories**

Flammable (gases, aerosols, liquids, or solids)  
 Acute toxicity (any route of exposure)  
 Serious eye damage or eye irritation  
 Reproductive toxicity  
 Specific target organ toxicity (single or repeated exposure)  
 Hazards Not Otherwise Classified (HNOC)

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Ethanol                  | 100 lbs.                   |
| Isopropyl alcohol        | 100 lbs.                   |
| Methyl alcohol           | 5000 lbs.                  |

**SARA 311/312 Hazardous Chemical**

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|--------------------------|------------------------------------|
| Ethanol                  | 10000 lbs.                         |
| Isopropyl alcohol        | 10000 lbs.                         |
| Methyl alcohol           | 10000 lbs.                         |

**SARA 313 (TRI Reporting)**

| <u>Chemical Identity</u> | <u>Reporting threshold for other users</u> | <u>Reporting threshold for manufacturing and processing</u> |
|--------------------------|--------------------------------------------|-------------------------------------------------------------|
| Isopropyl alcohol        | 10000 lbs.                                 | 25000 lbs.                                                  |
| Methyl alcohol           | 10000 lbs.                                 | 25000 lbs.                                                  |

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):**

None present or none present in regulated quantities.

**US State Regulations**
**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Methyl alcohol      Developmental toxin. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## US. New Jersey Worker and Community Right-to-Know Act

### Chemical Identity

Ethanol  
Isopropyl alcohol  
Methyl alcohol

## US. Massachusetts RTK - Substance List

### Chemical Identity

Ethanol  
Isopropyl alcohol  
Methyl alcohol

## US. Pennsylvania RTK - Hazardous Substances

### Chemical Identity

Ethanol  
Isopropyl alcohol  
Methyl alcohol

## US. Rhode Island RTK

### Chemical Identity

Ethanol  
Isopropyl alcohol  
Methyl alcohol

## International regulations

### Montreal protocol

Not applicable

### Stockholm convention

Not applicable

### Rotterdam convention

Not applicable

### Kyoto protocol

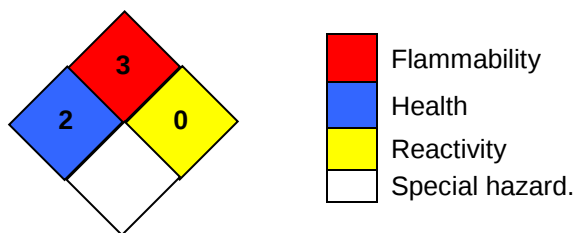
Not applicable

## Inventory Status:

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Australia AICS:                          | On or in compliance with the inventory |
| Canada DSL Inventory List:               | On or in compliance with the inventory |
| EINECS, ELINCS or NLP:                   | On or in compliance with the inventory |
| Japan (ENCS) List:                       | On or in compliance with the inventory |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory |
| Korea Existing Chemicals Inv. (KECI):    | On or in compliance with the inventory |
| Philippines PICCS:                       | On or in compliance with the inventory |
| US TSCA Inventory:                       | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals:      | On or in compliance with the inventory |
| Japan ISHL Listing:                      | Not in compliance with the inventory.  |
| Mexico INSQ:                             | On or in compliance with the inventory |
| Taiwan Chemical Substance Inventory:     | On or in compliance with the inventory |

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

## NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 05-31-2019

**Revision Information:** Not relevant.

**Version #:** 1.1

**Source of information:** Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.

**Further Information:** No data available.

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