



# Safety Data Sheet

Issue Date: 2-Nov-20

Revision Date: 16-Aug-2016 Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Isopropanol

### Other means of identification

**SDS/PART #** ISODRUM

**UN/ID No** UN1219

### Recommended use of the chemical and restrictions on use

**Recommended Use** Gas line anti-freeze.

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

#### **Manufacturer Address**

FMP  
1380 Corporate Center Curve, Suite 200  
Eagan, MN 55121  
Phone: 888-784-0802

### Emergency telephone number

**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear, colorless liquid

**Physical state** Liquid

**Odor** Alcohol-like

### Classification

|  |            |
|--|------------|
| Acute toxicity - Oral                            | Category 4 |
| Serious eye damage/eye irritation                | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable Liquids                                | Category 2 |

### Signal Word

**Danger**

### Hazard statements

Harmful if swallowed  
Causes serious eye irritation  
May cause drowsiness or dizziness  
Highly flammable liquid and vapor



### **Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool

### **Precautionary Statements - Response**

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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth  
 IN CASE OF FIRE: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

### **Precautionary Statements - Storage**

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

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name     | CAS No. | Weight-% |
|-------------------|---------|----------|
| Isopropyl Alcohol | 67-63-0 | 90-100   |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. \*\*

## **4. FIRST AID MEASURES**

### **Description of first aid measures**

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | 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. |
| <b>Skin Contact</b> | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  |

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | Remove person to fresh air and keep comfortable for breathing.            |
| <b>Ingestion</b>  | Call a poison center or doctor/physician if you feel unwell. Rinse mouth. |

**Most important symptoms and effects, both acute and delayed**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | May be harmful in contact with skin. May be harmful if inhaled. Harmful if swallowed. Causes serious eye irritation. May cause drowsiness or dizziness. |
|-----------------|---|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

**Unsuitable Extinguishing Media** High volume water jet.

**Specific Hazards Arising from the Chemical**

Highly flammable liquid and vapor. Do not allow run-off from fire-fighting to enter drains or water courses.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                             |  |
|-----------------------------|--|
| <b>Personal Precautions</b> | Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating. |
|-----------------------------|--|

**Environmental precautions**

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. Prevent product from entering drains. |
|----------------------------------|---|

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

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so.                           |
| <b>Methods for Clean-Up</b>    | Contain spill using noncombustible material such as vermiculite, sand or earth. |

**7. HANDLING AND STORAGE****Precautions for safe handling**

|                                |  |
|--------------------------------|--|
| <b>Advice on Safe Handling</b> | Wear protective gloves/protective clothing and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Keep cool. |
|--------------------------------|--|

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

|                           |  |
|---------------------------|--|
| <b>Storage Conditions</b> | Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
|---------------------------|--|

**Incompatible Materials**

Aldehydes. Chlorine. Ethylene oxide. Halogens. Isocyanates. Strong acids. Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

| Chemical name                | ACGIH TLV                     | OSHA PEL  | NIOSH IDLH  |
|------------------------------|-------------------------------|---|---|
| Isopropyl Alcohol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 980 mg/m <sup>3</sup><br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |

**Appropriate engineering controls****Engineering Controls**

Showers. Eyewash stations. Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Eye wash bottle. Tightly sealed goggles. Wear face shield and protective suit for abnormal processing problems.

**Skin and Body Protection**

Impermeable clothing. Impervious protective gloves.

**Respiratory Protection**

No personal respiratory protective equipment normally required. In the case of vapor formation use a respirator with an approved filter.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                       |                         |                       |              |
|-----------------------|-------------------------|-----------------------|--------------|
| <b>Physical state</b> | Liquid                  | <b>Odor</b>           | Alcohol-like |
| <b>Appearance</b>     | Clear, colorless liquid | <b>Odor Threshold</b> | 200 ppm      |
| <b>Color</b>          | Colorless               |                       |              |

| <u>Property</u>                        | <u>Values</u>         | <u>Remarks • Method</u> |
|--|-----------------------|-------------------------|
| pH                                     | No data available     |                         |
| Melting point / freezing point         | -88 °C / -126 °F      |                         |
| Boiling point / boiling range          | 82 °C / 180 °F        |                         |
| Flash point                            | 12 °C / 54 °F         |                         |
| Evaporation Rate                       | 1.2                   | N-butyl acetate         |
| Flammability (Solid, Gas)              | Liquid-Not applicable |                         |
| Flammability Limit in Air              |                       |                         |
| Upper flammability or explosive limits | 12.7% (V)             |                         |
| Lower flammability or explosive limits | 2%(V)                 |                         |
| Vapor Pressure                         | 32 mmHg @20°C/68      |                         |

|                                     |                                   |              |
|-------------------------------------|-----------------------------------|--------------|
| <b>Vapor Density</b>                | 2 @20°C/68DEGF                    | (Air=1)      |
| <b>Relative Density</b>             | 0.79 g/cm <sup>3</sup> @20°C/68°F | (Water=1)    |
| <b>Water Solubility</b>             | Soluble in water                  |              |
| <b>Solubility in other solvents</b> | no data available                 |              |
| <b>Partition Coefficient</b>        | log Pow: 0.05 @25°C/77°F          |              |
| <b>Autoignition temperature</b>     | 399 °C / 750.2 °F                 |              |
| <b>Decomposition temperature</b>    | Not determined                    |              |
| <b>Kinematic Viscosity</b>          | 2.6 mm <sup>2</sup> /s            | (@25°C/77°F) |
| <b>Dynamic Viscosity</b>            | 2.4 mPa s                         | (@20°C/68°F) |
| <b>Explosive Properties</b>         | Not determined                    |              |
| <b>Oxidizing Properties</b>         | Not determined                    |              |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapors may form explosive mixture with air.

### Conditions to Avoid

Incompatible Materials. Heat, flames and sparks.

### Incompatible materials

Aldehydes. Chlorine. Ethylene oxide. Halogens. Isocyanates. Strong acids. Strong oxidizing agents.

### Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Unburned hydrocarbons (smoke).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Eye Contact</b>  | Avoid contact with eyes.             |
| <b>Skin Contact</b> | May be harmful in contact with skin. |
| <b>Inhalation</b>   | May be harmful if inhaled.           |
| <b>Ingestion</b>    | Harmful if swallowed.                |

### Component Information

| Chemical name                | Oral LD50          | Dermal LD50           | Inhalation LC50                     |
|------------------------------|--------------------|-----------------------|-------------------------------------|
| Isopropyl Alcohol<br>67-63-0 | = 1870 mg/kg (Rat) | = 4059 mg/kg (Rabbit) | = 72600 mg/m <sup>3</sup> (Rat) 4 h |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Please see section 4 of this SDS for symptoms. |
|-----------------|--|

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

|  |                                |
|--|--------------------------------|
| <b>Serious eye damage/eye irritation</b> | Causes serious eye irritation. |
|--|--------------------------------|

**Carcinogenicity**

Group 3 IARC components are "not classifiable as human carcinogens".

| Chemical name                | ACGIH | IARC    | NTP | OSHA |
|------------------------------|-------|---------|-----|------|
| Isopropyl Alcohol<br>67-63-0 |       | Group 3 |     | X    |

**Legend****IARC (International Agency for Research on Cancer)**

Group 3 IARC components are "not classifiable as human carcinogens"

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**STOT - single exposure**

May cause drowsiness or dizziness.

**Numerical measures of toxicity**

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

**ATEmix (oral)** 1,870.00 mg/kg**ATEmix (dermal)** 4,059.00 mg/kg**ATEmix (inhalation-dust/mist)** 72.60 mg/L**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product is 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.

**Component Information**

| Chemical name                | Algae/aquatic plants   | Fish  | Crustacea                                  |
|------------------------------|--|---|--|
| Isopropyl Alcohol<br>67-63-0 | 1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50<br>1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 | 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static<br>9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through<br>1400000: 96 h <i>Lepomis macrochirus</i> µg/L LC50 | 13299: 48 h <i>Daphnia magna</i> mg/L EC50 |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

| Chemical name                | Partition coefficient |
|------------------------------|-----------------------|
| Isopropyl Alcohol<br>67-63-0 | 0.05                  |

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

| Chemical name                | California Hazardous Waste Status |
|------------------------------|-----------------------------------|
| Isopropyl Alcohol<br>67-63-0 | Toxic<br>Ignitable                |

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** **55 Gallon Drum**  
 UN/ID No UN1219  
 Proper Shipping Name Isopropanol  
 Hazard class 3  
 Packing Group II

**IATA** **55 Gallon Drum**  
 UN number FORBIDDEN  
 Proper Shipping Name FORBIDDEN  
 Transport hazard class(es) FORBIDDEN  
 Packing Group FORBIDDEN

**IMDG** **55 Gallon Drum**  
 UN number UN1219  
 Proper Shipping Name Isopropanol  
 Transport hazard class(es) 3  
 Packing Group II

**15. REGULATORY INFORMATION**International Inventories

| Chemical name     | TSCA | DSL/NDSL | EINECS/E<br>LINCS | ENCS | IECSC | KECL | PICCS | AICS |
|-------------------|------|----------|-------------------|------|-------|------|-------|------|
| Isopropyl Alcohol | X    | X        | X                 | X    | X     | X    | X     | X    |

**Legend:**

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

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

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

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

US Federal RegulationsCERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | Yes |
| Sudden Release of Pressure Hazard | No  |

Reactive Hazard

No

**SARA 313**

| Chemical name               | CAS No. | Weight-% | SARA 313 - Threshold Values % |
|-----------------------------|---------|----------|-------------------------------|
| Isopropyl Alcohol - 67-63-0 | 67-63-0 | 90-100   | 1.0                           |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name                | New Jersey | Massachusetts | Pennsylvania |
|------------------------------|------------|---------------|--------------|
| Isopropyl Alcohol<br>67-63-0 | X          | X             | X            |

**16. OTHER INFORMATION****NFPA****Health Hazards**

2

**Flammability**

3

**Instability**

0

**Special Hazards**

Not determined

**HMIS****Health Hazards**

2\*

**Flammability**

3

**Physical hazards**

0

**Personal Protection**

Not determined

*Chronic Hazard Star Legend**\* = Chronic Health Hazard***Issue Date:**

14-Aug-2018

**Revision Date:**

2-Nov-20

**Revision Note:**

Updated Section 14

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**