1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name FT ISOPROPYL ALCOHOL 99.7%
Product Code FLCIPAXXFC-IPA
Customer Code FT 183

Other means of identification
UN/ID No. 1291

Recommended use of the chemical and restrictions on use
Recommended Use Solvent
Uses advised against Use only as stated on label.

Details of the supplier of the safety data sheet
Manufactured For / Distributed By
Fortech® Products a Formula Corp Brand
4432 C ST NE
Auburn, WA 98002
Phone (800) 772-7005
E-Mail sales@formulacorp.com

Emergency telephone number
24 Hour Emergency Phone Number (800) 228-5635 X059

2. HAZARDS IDENTIFICATION

Classification
Acute toxicity - Oral Category 4
Acute toxicity - Dermal Category 5
Acute toxicity - Inhalation (Dusts/Mists) Category 5
Serious eye damage/eye irritation Category 2
Specific target organ toxicity (single exposure) Category 3
Flammable liquids Category 2

Label elements

Emergency Overview

Danger

Hazard statements
Harmful if swallowed
May be harmful in contact with skin
May be harmful if inhaled
Causes serious eye irritation
May cause drowsiness or dizziness
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>100%</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.
Skin Contact
Wash off immediately with plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

Inhalation
Remove to fresh air. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors.

Ingestion
Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider
Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed
Symptoms
Any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed
Note to physicians
Treat symptomatically.

5. FIRE-FIGHTING MEASURES
Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical
Flammable.

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

Personal precautions
Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Environmental precautions
Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Page 3 / 8
Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials

None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>STEL: 400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67-63-0</td>
<td>TWA: 200 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 980 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 980 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 500 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 1225 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IDLH: 2000 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA: 980 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL: 500 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL: 1225 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls

Showers, Eyewash stations & Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles. Face protection shield.

Skin and body protection

No special technical protective measures are necessary.

Respiratory protection

If exposure limits are exceeded or irritation is experienced. NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.
# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No Information available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not an Aqueous Solution</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.789</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>Water Thin</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No Information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>12 °C 54 °F</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>82 °C / 180 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Faster than water</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>2.1 No Information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>0.05</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>°C No Information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No Information available</td>
<td></td>
</tr>
</tbody>
</table>

**Other Information**

<table>
<thead>
<tr>
<th>Density Lbs/Gal</th>
<th>6.58</th>
<th>No Information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC Content (%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

# 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

- **Inhalation**: No data available.
- **Eye contact**: Severely irritating to eyes.
- **Skin Contact**: May be harmful in contact with skin.
- **Ingestion**: Harmful if swallowed.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>= 1870 mg/kg (Rat)</td>
<td>= 4059 mg/kg (Rabbit)</td>
<td>= 72600 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>67-63-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Information on toxicological effects**
FT ISOPROPYL ALCOHOL 99.7%  
Revision Date 22-Mar-2015

Symptoms  
No Information available.

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

Sensitization  
No Information available.

Germ cell mutagenicity  
No Information available.

Carcinogenicity  
The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol 67-63-0</td>
<td>Yes</td>
<td>Group 3</td>
<td>Yes</td>
<td>X</td>
</tr>
</tbody>
</table>

IARC (International Agency for Research on Cancer)  
Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
X - Present

Reproductive toxicity  
No Information available.

STOT - single exposure  
No Information available.

STOT - repeated exposure  
No Information available.

Chronic toxicity  
Avoid repeated exposure.

Target organ effects  
EYES, Respiratory system, Skin.

Aspiration hazard  
No Information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity  
0% of the mixture consists of ingredient(s) of unknown toxicity

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol 67-63-0</td>
<td>1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50</td>
<td>13299: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

Persistence and degradability  
No Information available.

Bioaccumulation  
No Information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol 67-63-0</td>
<td>0.05</td>
</tr>
</tbody>
</table>

Other adverse effects  
No Information available

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  
Do not reuse container.

US EPA Waste Number  
D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.
### 14. TRANSPORT INFORMATION

**Note:** The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

**U.S. Department of Transportation (USDOT)**

**4x1 Gallon Case**

UN1219, ISOPROPANOL, 3, II

(HM-RF2U)

**Pails & Drums (<119 Gallons)**

UN1219, ISOPROPANOL, 3, II

(HM-RF2U)

UN/ID No. 1291

Proper shipping name: ISOPROPANOL

Hazard Class 3

Subsidiary class 2

Packing Group 2

Emergency Response Guide Number 27

**DOT Notes**

This SDS is a universal document for all package/container sizes. This product is a PG II and MAY be transported under 49CFR as a “Limited Quantity or LTD QTY” in 12x1 quart or smaller packages. Refer to package markings and/or shipping paper for an accurate basic description.

### 15. REGULATORY INFORMATION

**International Inventories**

**TSCA**

Complies

**DSL/NDSL**

Complies

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

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

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol - 67-63-0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazard Categories**

- **Acute health hazard**: Yes
- **Chronic Health Hazard**: No
- **Fire hazard**: Yes
- **Reactive Hazard**: No
- **Sudden release of pressure hazard**: No

**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)
CERCLA
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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>67-63-0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

Additional information No Information available.

16. OTHER INFORMATION

HMIS

<table>
<thead>
<tr>
<th>Health hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

Prepared By Regulatory Department
Issue Date 01-Apr-2015
Revision Date 22-Mar-2015

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