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Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

## Section I - Product Identification

A solution of enzymes, isopropanol and low foaming surfactants in water.

## Section II - Hazards Identification

Warning: Flammable liquid and vapor. Keep away from heat, sparks, open flames and hot surfaces. Keep container tightly closed. Use only non-sparking tools. Take precautions against static discharge. Wear protective clothes and eye protection. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower. In case of fire, use fire extinguishers approved for alcohol fires.

### Safety Ratings

Health: Slight Flammability: Combustible liquid Reactivity: None Contact: Slight

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: General storage

NFPA Ratings

Health = 1 Flammability = 2 Reactivity = 0



### Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other surfactants.

*Inhalation:* May be irritating.

*Ingestion:* While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

*Skin contact:* Not normally a problem.

*Eye contact:* May be irritating.

*Chronic Exposure:* Unknown.

*Aggravation of preexisting conditions:* Unknown.

## Section III - Composition/Information on Components

Ingredients	CAS#	OSHA Pel	ACGIH TLV	Other Limits	%
Isopropanol	67-63-0	400 ppm (TWA)	400 ppm (TWA)		10% v/v
Subtilisin	9014-01-1	-----	0.06 ug/m <sup>3</sup>		< 1%

## Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* If the victim is conscious, induce vomiting. Never give anything by mouth to an unconscious person.

*Skin Contact:* Not normally an issue. In case of irritation, Wash affected area with soap and water. Get medical advice if irritation continues.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice if irritation develops.

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## Section V - Fire Fighting Measures

*Flash point:* 41 °C (106 °F) TCC

*Flammable Limits (Isopropanol):* LEL 2% UEL 13%

*Fire:* Not normally a fire Hazard,

*Explosion:* Not Normally an explosion hazards.

*Fire Extinguishing Media:* Alcohol type foam, carbon dioxide or dry chemical. Water is ineffective against alcohol fires but may be used to cool adjacent containers.

*Special information:* Pyrolysis will release toxic oxides such as carbon monoxide.

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## Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

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## Section VII - Handling and Storage

Store in a cool, well ventilated place. Store in a closed container, protected from freezing.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are not required but recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 96 °C

*Vapor pressure (mm Hg):* 20 @ 20 °C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* A clear blue liquid with a citrus odor.

*Density:* 0.985 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Excessive cold/heat and light.

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## Section XI - Toxicological Information

None relating to normal exposure.

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>NTP?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
isopropanol	no	no	no	3

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## Section XII - Ecological Information

Environmental Fate: Biodegradable

Environmental Toxicity: None

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### Section XIII - Disposal Considerations

Not normally restricted but local governments may regulate the amount of isopropanol that may be flushed down drain. Dispose of contents and container in accord with all applicable regulations.

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### Section XIV - Transportation information

Not regulated.

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### Section XV - Regulatory Information

#### Chemical Inventory Status

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<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Isopropanol	Yes	Yes

#### Federal, State and International Regulations

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<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
isopropanol	No	No	Yes	No	No	No	No

Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: Yes  
SARA 311/312: Acute: No    Chronic: No    Fire: Yes

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### Section XVI - Other Information

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

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