



Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician if you feel unwell  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

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

#### Precautionary Statements – Disposal

Dispose of contents/container to an approved waste disposal plant

### 2.3 Hazards not otherwise classified (HNOC)

#### Other information

May be harmful if swallowed  
 May be harmful if contact with skin

Unknown Acute Toxicity                      25.316 % of the mixture consists of ingredient(s) of unknown toxicity

## Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixtures

Component	CAS-No	Weight %	Trade secret
Ethyl Lactate	97-64-3	50-75	*
Isopropyl alcohol	67-63-0	1-5	*
Propanol	71-23-8	1-5	*

\*the exact percentage (concentration) of composition has been withheld as a trade secret

#### Note

Remaining components are either not hazardous or below threshold limits

## Section 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General Advice

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Immediate medical attention is required. If symptoms persist, call a physician

#### Eye Contact

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediately flush with plenty of water. After initial flushing, remove any



Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

### 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. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

## 6.2 Methods and materials for containment and cleaning up

### Methods for containment Methods for cleaning up

Prevent further leakage or spillage if safe to do so. 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.

## Section 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Handling

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

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

#### Storage

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

#### Incompatible storage

Strong oxidizing agents. Acids. Chlorinated compounds.

## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### Exposure limits

Component/Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	400 ppm STEL TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
Propanol 71-23-8	TWA: 100 ppm	TWA: 200 ppm TWA: 500mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 250 ppm STEL: 625 mg/m <sup>3</sup>

*NIOSH IDLH: Immediately Dangerous to Life or Health*

**8.2 Appropriate Engineering controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

**8.3 Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Tight sealing safety goggles. Face protection shield.

**Skin and Body Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory Protection** None under normal use conditions.

**Hygiene Measures** When using do not eat or drink. Regular cleaning of equipment, work area and clothing is recommended.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Important health, safety, and environmental information**

<b>Physical State</b>	Liquid	<b>Color</b>	No information available
<b>Appearance</b>	yellow	<b>Odor Threshold</b>	No information available
<b>Odor</b>	Characteristic		

Property	Values	Remarks * Method
<b>pH</b>		
<b>Melting point/freezing point</b>		
<b>Boiling point/Boiling Range</b>	No information available	
<b>Flash Point</b>	Approximately 37-39 °C	Seta Closed Cup
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid. Gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower flammability limit</b>	No information available	
<b>Vapor Pressure</b>	No information available	
<b>Vapor Density</b>	No information available	
<b>Specific Gravity</b>	1 – 1.2	
<b>Water Solubility</b>	No information available	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient:n-octanol/water</b>	No information available	
<b>Autoignition Temperature</b>	>200 °C	
<b>Decomposition Temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive Properties</b>	No information available	
<b>Oxidizing Properties</b>	No information available	

**9.2 Other Information**

<b>Softening Point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

## Section 10. STABILITY AND REACTIVITY

**10.1 Reactivity**

No data available

**10.2 Chemical Stability**

Stable under normal conditions

**10.3 Possibility of Hazardous Reactions**

None under normal conditions

**10.4 Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition

**10.5 Hazardous Polymerization**

Hazardous Polymerization does not occur

**10.6 Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents. Reducing agent

**10.7 Hazardous decomposition products**Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

## Section 11. TOXICOLOGY INFORMATION

**11.1 Information on likely route of exposure****Product Information**

The product has not been tested

**Inhalation**

Avoid breathing vapors or mists. Irritating to respiratory system

**Eye contact**

Avoid contact with eyes. Irritating to eyes. Risk of serious damage to eyes.

**If on skin**

Avoid contact with skin. May cause skin irritation and/or dermatitis

**Ingestion**

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do NOT taste or swallow.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Lactate 97-64-3	= 2000 mg/kg (Rat) > 2000 mg/kg (Rat)	>5000mg/kg (Rat)	
Isopropyl alcohol	=1870 mg/kg (Rat)	=4059 mg/kg (Rabbit)	=72600 mg/m <sup>3</sup> (Rat) 4h
Propanol 71-23-8	=1870 mg/kg (Rat)	=4059 mg/kg (Rabbit)	>13548 ppm (Rat) 4h

**11.2 Information on toxicological effects****Symptoms**

No information available

**11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure****Serious eye damage irritation irritation**

Irritating to eyes. Risk of serious damage to eyes. VAPORS MAY CAUSE DROWSINESS AND DIZZINESS. May cause irritation of respiratory tract. May cause skin and eye irritation.

**Sensitization**

No information available

**Mutagenic effects**

No information available

**Carcinogenicity**

The table below indicates whether each agency has listed any

ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0	-	Group 3	-	X

**ACGIH: (American Conference of Government Industrial Hygienists)**

A1 – Known Human Carcinogen

<b>Reproductive Toxicity</b>	May cause harm to the unborn child. Possible risk of harm to the unborn child. May impair
<b>STOT – single exposure</b>	No information available
<b>STOT – repeated exposure</b>	No information available
<b>Chronic toxicity</b>	Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons. Contains a known or suspected reproductive toxin.
<b>Target organ effects</b>	Central Nervous System (CNS), Eyes, Gastrointestinal tract (GI), blood, Skin, blood, kidney, liver
<b>Aspiration hazard</b>	No information available

#### **11.4 Numerical measures of toxicity – Product Information**

**Unknown acute toxicity** 25.316 % of the mixture consists of ingredient(s) of unknown toxicity

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

<b>ATEmix (oral)</b>	2008 mg/kg
<b>ATEmix (dermal)</b>	4928 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	1109.6 mg/L
<b>ATEmix (inhalation-vapor)</b>	711.2 mg/L

## **Section 12. ECOLOGICAL INFORMATION**

### **12.1 Ecotoxicity**

90.816 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Component or Chemical Name	Algae/aquatic plants
Isopropyl alcohol 67-63-0	1000: 72 h Desmodemus subspicatus mg/L EC50 1000: 96 h Desmodemus subspicatus mg/L EC50

Component or Chemical Name	Fish
Isopropyl alcohol 67-63-0	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
Propanol 71-23-8	96h LC50 Pimephales promelas: 481 - 578 mg/L [flow-through]

Component	Crustacea
Isopropyl alcohol 67-63-0	13299: 48 h Daphnia magna mg/L EC50
Propanol 71-23-8	3642: 48h Daphnia magna mg/L EC50 3339 – 3977: 48 h Daphnia magna mg/L EC50 Static

### **12.2 Persistence and degradability**

No information available

**12.3 Bio accumulative potential**

No information available

Component	Partition coefficient
Isopropyl alcohol 67-63-0	0.05
Propanol 71-23-8	0.34

**12.4 Other adverse effects**

No information available

**Section 13. DISPOSAL CONSIDERATIONS****13.1 Water treatment methods**

**Waste from residues/unused products** Disposal should be in accordance with applicable regional, national and local laws and regulations. Should not be released into the environment.

**Contaminated Packaging** Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol 67-63-0	Toxic, Ignitable
Propanol 71-23-8	Toxic, Ignitable

**Section 14. TRANSPORT CONSIDERATIONS**

<b>DOT</b>	Not regulated
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b>	
<b>UN-No</b>	UN1210
<b>Proper shipping name</b>	Printing Ink, Flammable
<b>Hazard Class</b>	3
<b>Packing group</b>	III
<b>IMDG/IMO</b>	
<b>UN-No</b>	UN1210
<b>Proper shipping name</b>	Printing Ink, Flammable
<b>Hazard Class</b>	3
<b>Packing group</b>	III
<b>Marine pollutant</b>	No information available
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ADN</b>	Not regulated

**Section 15. REGULATORY INFORMATION****5.1 International Inventories**

For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor)

Chemical	TSCA	DSL/NDS	EINECS/	ENCS	IECSC	KECL	PICCS	AICS
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Name		L	ELINCS					
Ethyl Lactate 97-64-3	X	X	X	X	X	X	X	X
Isopropyl alcohol 67-63-0	X	X	X	X	X	X	X	X
Propanol 71-23-8	X	X	X	X	X	X	X	X

### 15.2 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

### U.S. 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

#### Chemical Name

Isopropyl alcohol – 67-63-0

#### SARA 313 – Threshold Values %

1.0

#### SARA 311/312 Hazard Categories

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

#### Clean Air Act

This product contains the following substances which are regulated 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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl Lactate 97-64-3	X	X	X
Isopropyl alcohol 67-63-0	X	X	X
Propanol 71-23-8	X	X	X

U.S. EPA Label Information

EPA Pesticide registration number Not applicable

**Section 16. OTHER INFORMATION**

NFPA	Health hazard 2	Flammability 3	Instability 0	Physical and chemical properties
HMIS	Health hazard 2	Flammability 3	Instability 0	Personal precautions X

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**Disclaimer**

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Date Sheet**

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