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## **Precautionary Statements**

### **Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
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 electrical/ventilating/lighting/equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wear protective gloves/protective clothing/eye protection/face protection  
Keep cool

### **Inhalation**

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

### **Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

### **Eyes**

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## Skin Contact

**Component**  
Isopropyl alcohol

**ACGIH TLV**  
TWA: 200 ppm  
STEL: 400 ppm

**OSHA PEL**  
(Vacated) TWA: 400 ppm  
(Vacated) TWA: 980 mg/m<sup>3</sup>  
(Vacated) STEL: 500 ppm

**NIOSH IDLH**

Methyl alcohol

TWA: 200 ppm  
TWA: 262 mg/m<sup>3</sup>  
STEL: 250 ppm  
STEL: 328 mg/m<sup>3</sup>  
Skin

TWA: 200 ppm  
TWA: 260 mg/m<sup>3</sup>  
STEL: 250 ppm  
STEL: 310 mg/m<sup>3</sup>

TWA: 200 ppm  
STEL: 250 ppm  
Skin

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Green
<b>Odor</b>	Alcohol-like
<b>Odor Threshold</b>	No information available
<b>pH</b>	~
<b>Melting Point/Range</b>	No data available
<b>Boiling Point/Range</b>	°C
<b>Flash Point</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid,gas)</b>	No information available
<b>Flammability or explosive limits</b>	
Upper	12%

<b>Lower</b>	2.0%
<b>Vapor Pressure</b>	25 mmHg
<b>Vapor Density</b>	1.3
<b>Relative Density</b>	0.93
<b>Solubility</b>	Soluble in water
<b>Partition coefficient; n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Viscosity</b>	No information available

## 10. Stability and reactivity

<b>Reactive Hazard</b>	None known, based on information available
<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Incompatible products.
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	None under normal use conditions
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.

## 11. Toxicological information

### Acute Toxicity

<b>Oral LD50</b>	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
<b>Dermal LD50</b>	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
<b>Vapor LC50</b>	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

### **Component Information**

<b>Component</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Isopropyl alcohol	5840 mg/kg ( Rat )		

3,3-bis(4-hydroxyphenyl)-, disodium salt							
Methyl alcohol	67-56-1	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Phenol,	62625-21-2	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[5-methyl-2-(1-methylethyl)-, S,S-dioxide, monosodium salt							

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure** Central nervous system (CNS)

**STOT - repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

## 12. Ecological information

### Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isopropyl alcohol	1000 mg/L EC50 > 96 h 1000 mg/L EC50 > 72 h	1400000 µg/L LC50 96 h 11130 mg/L LC50 96 h 9640 mg/L LC50 96 h	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	EC50 > 10000 mg/L 24h
<b>Persistence and Degradability</b>	No information available			

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<b>Proper Shipping Name</b>	ALCOHOLS, N.O.S.
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b><u>TDG</u></b>	
<b>UN-No</b>	UN1987
<b>Proper Shipping Name</b>	ALCOHOLS, N.O.S.
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b><u>IATA</u></b>	
<b>UN-No</b>	UN1987
<b>Proper Shipping Name</b>	ALCOHOLS, N.O.S.
<b>Hazard Class</b>	3

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**SARA 313**

Not applicable

<b>Component</b>	<b>CAS-No</b>	<b>Weight %</b>	<b>SARA 313 - Threshold Values %</b>
Isopropyl alcohol	67-63-0	37.0	1.0
Methyl alcohol	67-56-1	0.8	1.0

**SARA 311/312 Hazardous Categorization**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	Yes





## 16. Other information

<b>Prepared By</b>	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
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<b>Print Date</b>	10-Feb-2015
<b>Revision Summary</b>	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

### 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 SDS**