

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### Product Identifier

**Product form:** Mixture

**Product name:** IPA/Xylene 1:1

**Product code:** 280-25

### Intended Use Of The Product

**Use of the substance/mixture:** Laboratory Reagent

### Name, Address, And Telephone Of The Responsible Party

OFI Testing Equipment, Inc.  
11302 Steeplecrest Dr.  
Houston, TX 77065 USA  
+1-832-320-7300

[www.ofite.com](http://www.ofite.com)

### Emergency Telephone Number

**Emergency number** : INFOTRAC USA and Canada: 1-800-535-5053 / INFOTRAC Outside USA and Canada: 1-352-323-3500

## SECTION 2: HAZARDS IDENTIFICATION

### Classification Of The Substance Or Mixture

#### GHS-US classification

Flam. Liq. 2	H225
Acute Tox. 4 (Inhalation: dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Repr. 1B	H360
STOT SE 3	H335
STOT SE 1	H370

### Label Elements

#### GHS-US labeling

#### Hazard pictograms (GHS-US)



#### Signal word (GHS-US)

: Danger

#### Hazard statements (GHS-US)

: H225 - Highly flammable liquid and vapour  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H360 - May cause damage to fertility or the unborn child  
H370 - Causes damage to organs

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**Precautionary statements (GHS-US)**

- : P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
- P233 - Keep container tightly closed
- P240 - Ground/bond container and receiving equipment
- P241 - Use explosion-proof electrical, lighting, ventilating equipment
- P242 - Use only non-sparking tools
- P243 - Take precautionary measures against static discharge
- P260 - Do not breathe mist or vapors
- P264 - Wash hands, forearms, and exposed areas thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear protective clothing, protective gloves, face protection, eye protection, respiratory protection
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water
- P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308+P313 - IF exposed or concerned: Get medical advice/attention
- P312 - Call a POISON CENTER or doctor if you feel unwell
- P321 - Specific treatment (see section 4)
- P332+P313 - If skin irritation occurs: Get medical advice/attention
- P337+P313 - If eye irritation persists: Get medical advice/attention
- P362 - Take off contaminated clothing
- P370+P378 - In case of fire: Use water spray, dry chemical, carbon dioxide, alcohol foam for extinction
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed
- P403+P235 - Store in a well-ventilated place. Keep cool
- P405 - Store locked up
- P501 - Dispose of contents/container according to local, regional, national, and international regulations.

### Other Hazards

**Other hazards not contributing to the classification:** Exposure may aggravate individuals with pre-existing skin, kidney, liver, and pulmonary disorders.

**Unknown acute toxicity (GHS US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)	GHS-US classification
Xylenes (o-, m-, p- isomers)	(CAS No.) 1330-20-7	52.3	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation: dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1B, H360 STOT SE 3, H336 STOT SE 1, H370
Isopropyl alcohol	(CAS No.) 67-63-0	47.7	Flam. Liq. 2, H225 Eye Irrit. 2A, H319

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			STOT SE 3, H336
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Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### Description Of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**Skin Contact:** Rinse with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Eye Contact:** 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 and attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### Most Important Symptoms And Effects Both Acute and Delayed

**General:** Eye irritation. May damage fertility. May damage the unborn child. Causes damage to organs.

**Inhalation:** Harmful if inhaled. May cause respiratory irritation. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.

**Skin Contact:** Harmful through contact with skin. Causes skin irritation.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** Diarrhea. Abdominal pain. Nausea. Vomiting.

**Chronic symptoms:** Not available

#### Indication Of Any Immediate Medical Attention And Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing Media

**Suitable extinguishing media:** Water spray, dry chemical, carbon dioxide, alcohol resistant foam.

**Unsuitable extinguishing media:** Do not use a heavy water stream.

#### Special Hazards Arising From The Substance Or Mixture

**Fire hazard:** Highly flammable liquid and vapour

**Explosion hazard:** May form flammable/explosive vapour-air mixture.

**Reactivity:** Not available

#### Advice For Firefighters

**Precautionary measures fire:** Not available

**Firefighting instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>)

#### Reference To Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment And Emergency Procedures

**General measures:** Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do NOT breathe (dust, vapor). Handle in accordance with good industrial hygiene and safety practice. Avoid all eyes and skin contact.

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### For Non-Emergency Personnel

**Protective equipment:** Use appropriate personal protection equipment (PPE).

**Emergency procedures:** Evacuate unnecessary personnel.

### For Emergency Personnel

**Protective equipment:** Use appropriate personal protection equipment (PPE).

**Emergency procedures:** Ventilate area.

### Environmental Precautions

Prevent entry to sewers and public waters.

### Methods And Material For Containment And Cleaning Up

**For containment:** Remove ignition sources. Ventilate area. Absorb and/or contain spill with inert material, then place in suitable container.

**Methods for cleaning up:** Clear up spills immediately and dispose of waste safely. Use only non-sparking tools.

### Reference To Other Sections

See Heading 8, exposure controls and personal protection.

## **SECTION 7: HANDLING AND STORAGE**

### Precautions For Safe Handling

**Additional hazards when processed:** Handle empty containers with care because residual vapours are flammable.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands, forearms, and other exposed areas thoroughly after handling. Do not eat, drink or smoke when using this product.

### Conditions For Safe Storage, Including Any Incompatibilities

**Technical measures:** Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, lighting, and ventilating equipment.

**Storage conditions:** Keep only in the original container in a cool, well ventilated place away from: incompatibilities, ignition sources, heat sources, combustible materials. Keep container closed when not in use. Keep in fireproof place.

### Specific End Use(s)

Laboratory Reagent

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Control Parameters

Isopropyl alcohol (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	500 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA IDLH	US IDLH (ppm)	2000 ppm (10% LEL)
Alberta	OEL STEL (mg/m <sup>3</sup> )	984 mg/m <sup>3</sup>
Alberta	OEL STEL (ppm)	400 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	492 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	200 ppm

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British Columbia	OEL STEL (ppm)	400 ppm
British Columbia	OEL TWA (ppm)	200 ppm
Manitoba	OEL STEL (ppm)	400 ppm
Manitoba	OEL TWA (ppm)	200 ppm
New Brunswick	OEL STEL (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>
New Brunswick	OEL STEL (ppm)	500 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)	400 ppm
New Foundland & Labrador	OEL STEL (ppm)	400 ppm
New Foundland & Labrador	OEL TWA (ppm)	200 ppm
Nova Scotia	OEL STEL (ppm)	400 ppm
Nova Scotia	OEL TWA (ppm)	200 ppm
Nunavut	OEL STEL (mg/m <sup>3</sup> )	1228 mg/m <sup>3</sup>
Nunavut	OEL STEL (ppm)	500 ppm
Nunavut	OEL TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
Nunavut	OEL TWA (ppm)	400 ppm
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	1228 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (ppm)	500 ppm
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (ppm)	400 ppm
Ontario	OEL STEL (ppm)	400 ppm
Ontario	OEL TWA (ppm)	200 ppm
Prince Edward Island	OEL STEL (ppm)	400 ppm
Prince Edward Island	OEL TWA (ppm)	200 ppm
Québec	VECD (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>
Québec	VECD (ppm)	500 ppm
Québec	VEMP (mg/m <sup>3</sup> )	985 mg/m <sup>3</sup>
Québec	VEMP (ppm)	400 ppm
Saskatchewan	OEL STEL (ppm)	400 ppm
Saskatchewan	OEL TWA (ppm)	200 ppm
Yukon	OEL STEL (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
Yukon	OEL STEL (ppm)	500 ppm
Yukon	OEL TWA (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	400 ppm

<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	150 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Alberta	OEL STEL (mg/m <sup>3</sup> )	651 mg/m <sup>3</sup>
Alberta	OEL STEL (ppm)	150 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	100 ppm

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British Columbia	OEL STEL (ppm)	150 ppm
British Columbia	OEL TWA (ppm)	100 ppm
Manitoba	OEL STEL (ppm)	150 ppm
Manitoba	OEL TWA (ppm)	100 ppm
New Brunswick	OEL STEL (mg/m <sup>3</sup> )	651 mg/m <sup>3</sup>
New Brunswick	OEL STEL (ppm)	150 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)	100 ppm
Newfoundland & Labrador	OEL STEL (ppm)	150 ppm
Newfoundland & Labrador	OEL TWA (ppm)	100 ppm
Nova Scotia	OEL STEL (ppm)	150 ppm
Nova Scotia	OEL TWA (ppm)	100 ppm
Nunavut	OEL STEL (mg/m <sup>3</sup> )	652 mg/m <sup>3</sup>
Nunavut	OEL STEL (ppm)	150 ppm
Nunavut	OEL TWA (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
Nunavut	OEL TWA (ppm)	100 ppm
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	652 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (ppm)	150 ppm
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (ppm)	100 ppm
Ontario	OEL STEL (ppm)	150 ppm
Ontario	OEL TWA (ppm)	100 ppm
Prince Edward Island	OEL STEL (ppm)	150 ppm
Prince Edward Island	OEL TWA (ppm)	100 ppm
Québec	VECD (mg/m <sup>3</sup> )	651 mg/m <sup>3</sup>
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Québec	VEMP (ppm)	100 ppm
Saskatchewan	OEL STEL (ppm)	150 ppm
Saskatchewan	OEL TWA (ppm)	100 ppm
Yukon	OEL STEL (mg/m <sup>3</sup> )	650 mg/m <sup>3</sup>
Yukon	OEL STEL (ppm)	150 ppm
Yukon	OEL TWA (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	100 ppm

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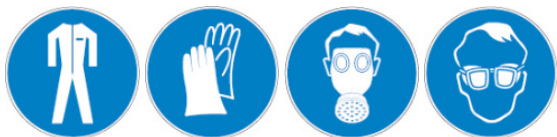
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### Exposure Controls

**Appropriate engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electric Code. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

**Personal protective equipment:** Avoid all unnecessary exposure. Fireproof clothing. Gloves. Insufficient ventilation: wear respiratory protection. Protective goggles.



**Materials for protective clothing:** Chemically resistant materials and fabrics. Wear fire/flamm resistant/retardant clothing.

**Hand protection:** Wear chemically resistant protective gloves.

**Eye protection:** Chemical goggles or safety glasses.

**Skin and body protection:** Not available

**Respiratory protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental exposure controls:** Do not release to the environment.

**Other information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information On Basic Physical And Chemical Properties

Physical state	: Liquid
Appearance	: Clear, red
Odour	: Solvent
Odour threshold	: Not available
pH	: Not available
Relative evaporation rate (butylacetate=1)	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower flammable limit	: ~ 1 %
Upper flammable limit	: ~ 8 %
Vapour pressure	: Not available
Relative vapour density at 20 °C	: ~ 3
Relative density	: Not available
Specific gravity	: ~ 0.84
Solubility	: Not available
Log Pow	: Not available
Log Kow	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available

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**Explosion data - sensitivity to mechanical impact** : Not available

**Explosion data - sensitivity to static discharge** : Not available

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity** Not available

**Chemical Stability** Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

**Possibility Of Hazardous Reactions** Hazardous polymerization will not occur.

**Conditions To Avoid** Direct sunlight. Extremely high or low temperatures. Open flame.

**Incompatible Materials** Strong acids. Strong bases. Strong oxidizers. Combustible materials. Strong reducing agents.

**Hazardous Decomposition Products** May release flammable gases. Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information On Toxicological Effects - Product

**Acute toxicity** : Harmful if inhaled.

**LD50 and LC50 Data** Not available

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/irritation:** Causes serious eye irritation.

**Respiratory or skin sensitisation:** Not classified

**Germ cell mutagenicity:** Not classified

**Teratogenicity:** Not available

**Carcinogenicity:** Not classified

**Specific target organ toxicity (repeated exposure):** Not classified

**Reproductive toxicity:** May damage fertility or the unborn child.

**Specific target organ toxicity (single exposure):** May cause respiratory irritation. Causes damage to organs.

**Aspiration hazard:** Not classified

**Potential Adverse human health effects and symptoms:** Harmful if inhaled.

**Symptoms/injuries after inhalation:** Harmful if inhaled. May cause respiratory irritation. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.

**Symptoms/injuries after skin contact:** Causes skin irritation.

**Symptoms/injuries after eye contact:** Causes serious eye irritation.

**Symptoms/injuries after ingestion:** Diarrhea. Abdominal pain. Nausea. Vomiting.

#### Information On Toxicological Effects - Ingredient(s)

##### LD50 and LC50 Data

Isopropyl alcohol (67-63-0)	
LD50 oral rat	4396 mg/kg
LD50 dermal rat	12800 mg/kg
LD50 dermal rabbit	12870 mg/kg
LC50 inhalation rat (mg/l)	72.6 mg/l (Exposure time: 4 h)

Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	> 1700 mg/kg
LC50 inhalation rat (mg/l)	47635 mg/l (Exposure time: 4 h)
LC50 inhalation rat (ppm)	5000 ppm (Exposure time: 4 h)

Isopropyl alcohol (67-63-0)	
IARC group	3



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<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
IARC group	3
National Toxicity Program (NTP) Status	1

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

<b>Isopropyl alcohol (67-63-0)</b>	
LC50 fishes 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	> 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 other aquatic organisms 2	> 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
LC50 fishes 1	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	2.661 - 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 2	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)

### Persistence And Degradability

<b>IPA/Xylene 1:1</b>	
Persistence and degradability	Not established.

### Bioaccumulative Potential

<b>IPA/Xylene 1:1</b>	
Bioaccumulative potential	Not established.

<b>Isopropyl alcohol (67-63-0)</b>	
Log Pow	0.05 (at 25 °C)

<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
BCF fish 1	0.6 - 15
Log Pow	2.77 - 3.15

**Mobility In Soil** Not available

### Other Adverse Effects

**Other information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste disposal recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Additional information:** Handle empty containers with care because residual vapours are flammable.

**Ecology - waste materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

In accordance with ICAO/IATA/DOT/TDG

**UN Number**

**UN-No.(DOT):** 1993

**DOT NA no.:** UN1993

**UN Proper Shipping Name**

**DOT Proper Shipping Name** : Flammable liquids, n.o.s.(Isopropyl Alcohol and Xylene)

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**Department of Transportation (DOT) Hazard Classes** : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
**Hazard labels (DOT)** : 3 - Flammable liquid



**DOT Symbols** : G - Identifies PSN requiring a technical name  
**Packing group (DOT)** : II - Medium Danger  
**DOT Special Provisions (49 CFR 172.102)** : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.  
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)  
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.  
TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).  
TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.  
**DOT Packaging Exceptions (49 CFR 173.xxx)** : 150  
**DOT Packaging Non Bulk (49 CFR 173.xxx)** : 202  
**DOT Packaging Bulk (49 CFR 173.xxx)** : 242  
**Additional information**  
**Emergency Response Guide (ERG) Number** : 128

**Overland transport** Flammable liquids, n.o.s.(Isopropyl Alcohol and Xylene)

### Transport by sea

**DOT Vessel Stowage Location** : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

### Air transport

**DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)** : 5 L  
**DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)** : 60 L

## SECTION 15: REGULATORY INFORMATION

### US Federal regulations

<b>Isopropyl alcohol (67-63-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)	
<b>EPA TSCA Regulatory Flag</b>	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
<b>SARA Section 313 - Emission Reporting</b>	1.0 % (only if manufactured by the strong acid process, no supplier

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	notification)
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
<b>RQ (Reportable quantity, section 304 of EPA's List of Lists) :</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	1.0 %

### US State regulations

<b>Isopropyl alcohol (67-63-0)</b>
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Connecticut - Volatile Substances
U.S. - Hawaii - Occupational Exposure Limits - STELs
U.S. - Hawaii - Occupational Exposure Limits - TWAs
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - STELs
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - STELs
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Oregon - Permissible Exposure Limits - TWAs
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour
U.S. - Tennessee - Occupational Exposure Limits - STELs
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - City of Austin - Aerosol Paint and Glue Restrictions
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - STELs
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

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### Xylenes (o-, m-, p- isomers) (1330-20-7)

U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute  
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic  
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)  
U.S. - Colorado - Groundwater Quality Standards  
U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues  
U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Level Goals (MCLGs)  
U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Levels (MCLs)  
U.S. - Connecticut - Drinking Water Quality Standards - Maximum Contaminant Levels  
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
U.S. - Florida - Drinking Water Standards - Volatile Organic Contaminants - Maximum Contaminant Levels (MCLs)  
U.S. - Georgia - Drinking Water - Maximum Contaminant Levels (MCLs)  
U.S. - Hawaii - Occupational Exposure Limits - Skin Designations  
U.S. - Hawaii - Occupational Exposure Limits - STELs  
U.S. - Hawaii - Occupational Exposure Limits - TWAs  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Idaho - Occupational Exposure Limits - TWAs  
U.S. - Illinois - Toxic Air Contaminants  
U.S. - Louisiana - Reportable Quantity List for Pollutants  
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants  
U.S. - Massachusetts - Allowable Ambient Limits (AALs)  
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)  
U.S. - Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Right To Know List  
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELEs)  
U.S. - Massachusetts - Toxics Use Reduction Act  
U.S. - Michigan - Critical Materials List  
U.S. - Michigan - Occupational Exposure Limits - STELs  
U.S. - Michigan - Occupational Exposure Limits - TWAs  
U.S. - Michigan - Polluting Materials List  
U.S. - Minnesota - Chemicals of High Concern  
U.S. - Minnesota - Groundwater Health Risk Limits  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - STELs  
U.S. - Minnesota - Permissible Exposure Limits - TWAs  
U.S. - Missouri - Drinking Water - Maximum Contaminant Levels (MCLs)  
U.S. - Nebraska - Drinking Water - Maximum Contaminant Levels (MCLs)  
U.S. - New Hampshire - Drinking Water - Maximum Contaminant Levels (MCLs)  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
U.S. - New Jersey - Environmental Hazardous Substances List  
U.S. - New Jersey - Primary Drinking Water Standards - Maximum Contaminant Levels - MCLs  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Special Health Hazards Substances List  
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria

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U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)  
U.S. - New Mexico - Water Quality - Standards for Ground Water of 10,000 mg/L TDS Concentration or Less  
U.S. - New York - Occupational Exposure Limits - TWAs  
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances  
U.S. - North Carolina - Control of Toxic Air Pollutants  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues  
U.S. - North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II  
U.S. - Oregon - Permissible Exposure Limits - TWAs  
U.S. - Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual  
U.S. - Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria  
U.S. - Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria  
U.S. - South Carolina - Maximum Contaminant Levels (MCLs)  
U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations  
U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories  
U.S. - Tennessee - Occupational Exposure Limits - STELs  
U.S. - Tennessee - Occupational Exposure Limits - TWAs  
U.S. - Texas - City of Austin - Aerosol Paint and Glue Restrictions  
U.S. - Texas - Drinking Water Standards - Maximum Contaminant Levels (MCLs)  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Utah - Drinking Water - Maximum Contaminant Levels (MCLs)  
U.S. - Washington - Dangerous Waste - Discarded Chemical Products List  
U.S. - Washington - Permissible Exposure Limits - STELs  
U.S. - Washington - Permissible Exposure Limits - TWAs  
U.S. - West Virginia - Water Quality - Groundwater Standards - Ceiling Concentrations  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

### Canadian regulations

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WHMIS Classification

Class D Division 2 Subdivision B - Toxic material causing other toxic effects  
Class D Division 2 Subdivision A - Very toxic material causing other toxic effects  
Class B Division 2 - Flammable Liquid



#### Isopropyl alcohol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification

Class B Division 2 - Flammable Liquid

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	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class B Division 2 - Flammable Liquid

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

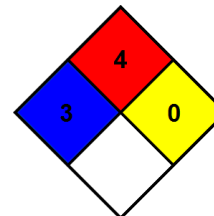
### SECTION 16: OTHER INFORMATION

**Indication of changes** : Revision date: 05/13/2013  
**Other information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Repr. 1B	Reproductive toxicity Category 1B
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H360	May damage fertility or the unborn child
H370	Causes damage to organs

**NFPA health hazard** : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.  
**NFPA fire hazard** : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.  
**NFPA reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



#### HMIS III Rating

**Health** : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given  
**Flammability** : 4 Severe Hazard  
**Physical** : 0 Minimal Hazard

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### **Party Responsible For The Preparation Of This Document:**

OFI Testing Equipment

Phone Number: 832-320-7300

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

North America GHS US 2012 & WHMIS