

Safety Data Sheet

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier**

Product Name	• Cu BTA Dilution, 1:200
Synonyms	• IPA/1-H Benzotriazole Mixture
Product Code	• 70026

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)	• Copper CMP
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1.3 Details of the supplier of the safety data sheet

Manufacturer	• Air Liquide 2700 Post Oak Blvd. Houston, TX 77056 United States www.us.airliquide.com sds@airliquide.com
Telephone (Technical)	• 713-896-2896
Telephone (Technical)	• 800-819-1704

1.4 Emergency telephone number

Manufacturer	• 800-424-9300 - CHEMTREC
Manufacturer	• +1 703-527-3887 - Outside United States

Section 2: Hazards Identification**EU/EEC**

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP	• Not classified - Classification criteria not met
DSD/DPD	• Not classified - Classification criteria not met

2.2 Label Elements

CLP	
Hazard statements	• No label element(s) required
DSD/DPD	
Risk phrases	• No label element(s) required

2.3 Other Hazards

CLP	• According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.
DSD/DPD	• According to European Directive 1999/45/EC this preparation is not considered

dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Not classified - Classification criteria not met

2.2 Label elements

OSHA HCS 2012

Hazard statements • No label element(s) required

2.3 Other hazards

OSHA HCS 2012

- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Not classified - Classification criteria not met

2.2 Label elements

WHMIS

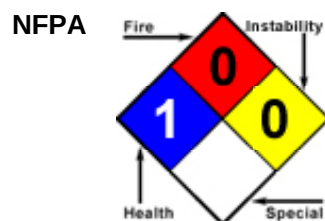
- No label element(s) required

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

2.4 Other information



Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments

Isopropyl alcohol	CAS:67-63-0 EC Number:200-661-7 EU Index:603-117-00-0	1%	Inhalation-Rat LC50 • 16000 ppm 8 Hour(s) Skin-Rabbit LD50 • 12800 mg/kg Ingestion/Oral-Rat LD50 • 5000 mg/kg	EU DSD/DPD: Annex I: F; R11 Xi; R36 R67 EU CLP: Annex VI: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2; Skin Irrit. 2; STOT SE 3: Narc.	NDA
Deionized Water and other components	NDA	99%	NDA	EU DSD/DPD: Not Hazardous EU CLP: Not Hazardous OSHA HCS 2012: Not Hazardous	NDA

None of the other components contribute significant additional hazards at the concentrations present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, Canadian Workplace Hazardous Materials Identification System Standards (CPR 4), EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] and EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD).

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

- | | |
|-------------------|---|
| Inhalation | <ul style="list-style-type: none"> Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. |
| Skin | <ul style="list-style-type: none"> In case of contact with substance, immediately flush skin with running water for at least 20 minutes. |
| Eye | <ul style="list-style-type: none"> In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. |
| Ingestion | <ul style="list-style-type: none"> If swallowed, rinse mouth with water (only if the person is conscious) If large quantities are swallowed, call a physician immediately. |

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

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|---------------------------|--|
| Notes to Physician | <ul style="list-style-type: none"> All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. |
|---------------------------|--|

Section 5 - Firefighting Measures

5.1 Extinguishing media

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|---------------------------------------|---|
| Suitable Extinguishing Media | <ul style="list-style-type: none"> LARGE FIRE: Water spray, fog or regular foam. SMALL FIRES: Dry chemical, CO2, water spray or regular foam. |
| Unsuitable Extinguishing Media | <ul style="list-style-type: none"> No data available. |

5.2 Special hazards arising from the substance or mixture

- | | |
|---|--|
| Unusual Fire and Explosion Hazards | <ul style="list-style-type: none"> Some may burn but none ignite readily. |
| Hazardous Combustion Products | <ul style="list-style-type: none"> No data available. |

5.3 Advice for firefighters

- Move containers from fire area if you can do it without risk.
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures

- Keep unauthorized personnel away. Stay upwind.

6.2 Environmental precautions

- Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use only with adequate ventilation. Use good safety and industrial hygiene practices. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry, well-ventilated place.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	China	France
Isopropyl alcohol (67-63-0)	STELs	400 ppm STEL	400 ppm STEL	500 ppm STEV; 1230 mg/m3 STEV	700 mg/m3 STEL	400 ppm STEL [VLCT]; 980 mg/m3 STEL [VLCT]
	TWAs	200 ppm TWA	200 ppm TWA	400 ppm TWAEV; 985 mg/m3 TWAEV	350 mg/m3 TWA	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Germany DFG	Germany TRGS	Ireland	Israel	NIOSH
	STELs	Not established	Not established	400 ppm STEL	400 ppm STEL	500 ppm STEL; 1225 mg/m3 STEL
			200 ppm TWA AGW (The risk of damage to the embryo or fetus can be			

Isopropyl alcohol (67-63-0)	TWAs	Not established	excluded when AGW and BGW values are observed, exposure factor 2); 500 mg/m ³ TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	200 ppm TWA	200 ppm TWA	400 ppm TWA; 980 mg/m ³ TWA
	Ceilings	400 ppm Peak; 1000 mg/m ³ Peak	Not established	Not established	Not established	Not established
	MAKs	200 ppm TWA MAK; 500 mg/m ³ TWA MAK	Not established	Not established	Not established	Not established

Exposure Limits/Guidelines (Con't.)

	Result	OSHA	OSHA Vacated	Portugal	Spain	Sweden
Isopropyl alcohol (67-63-0)	STELs	Not established	500 ppm STEL; 1225 mg/m ³ STEL	400 ppm STEL [VLE-CD]	400 ppm STEL [VLA-EC]; 1000 mg/m ³ STEL [VLA-EC]	250 ppm STV; 600 mg/m ³ STV
	TWAs	400 ppm TWA; 980 mg/m ³ TWA	400 ppm TWA; 980 mg/m ³ TWA	200 ppm TWA [VLE-MP]	200 ppm TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound); 500 mg/m ³ TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)	150 ppm LLV; 350 mg/m ³ LLV
	Biological Limit Values (BLV)	Not established	Not established	Not established	40 mg/L urine end of workweek Acetone (1,F,I)	Not established

Exposure Control Notations

Portugal

- Isopropyl alcohol (67-63-0): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Ireland

- Isopropyl alcohol (67-63-0): **Skin:** (Potential for cutaneous absorption)

Germany DFG

- Isopropyl alcohol (67-63-0): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

8.2 Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

- Eye/Face**
- Wear safety glasses.
- Skin/Body**
- No protective clothing expected to be needed.
- Environmental Exposure Controls**
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

LLV = Limit Level Value is the exposure limit for 8-hour work day

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

STEV = Short Term Exposure Value

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Clear, colorless liquid with a faint characteristic odor (like rubbing alcohol)
Color	Colorless	Odor	faint characteristic odor (like rubbing alcohol)
Odor Threshold	3.3 to 610 detection [Isopropyl Alcohol]		
General Properties			
Boiling Point	100 C(212 F)	Melting Point	0 C(32 F)
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	< 1 Water=1	Density	Data lacking
Water Solubility	Miscible	Solvent Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Not relevant.
Oxidizing Properties:	Not relevant.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not relevant.		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- No data available.

10.5 Incompatible materials

- This product would be incompatible with those materials that are incompatible with water.

10.6 Hazardous decomposition products

- Carbon monoxide. Carbon dioxide.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Isopropyl alcohol (1%)	67-63-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5000 mg/kg; <i>Behavioral:</i> General anesthetic ; Inhalation-Rat LC50 • 16000 ppm 8 Hour(s); Skin-Rabbit LD50 • 12800 mg/kg; Irritation: Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg • Mild irritation; Reproductive: Inhalation-Rat TClO • 3500 ppm 7 Hour(s)(1-19D preg); <i>Reproductive Effects:</i> Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus)

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Serious eye damage/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
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Potential Health Effects

Inhalation

- | | |
|--------------------------|---|
| Acute (Immediate) | • Under normal conditions of use, no health effects are expected. |
| Chronic (Delayed) | • No data available. |

Skin

- | | |
|--------------------------|---|
| Acute (Immediate) | • Under normal conditions of use, no health effects are expected. |
| Chronic (Delayed) | • No data available. |

Eye

- | | |
|--------------------------|---|
| Acute (Immediate) | • Under normal conditions of use, no health effects are expected. |
| Chronic (Delayed) | • No data available. |

Ingestion

- | | |
|--------------------------|---|
| Acute (Immediate) | • Under normal conditions of use, no health effects are expected. |
| Chronic (Delayed) | • No data available. |

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

- None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- None

State Right To Know				
Component	CAS	MA	NJ	PA
Isopropyl alcohol	67-63-0	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Isopropyl alcohol	67-63-0	Yes	No	Yes	Yes	No

Inventory (Con't.)		
Component	CAS	TSCA
Isopropyl alcohol	67-63-0	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Isopropyl alcohol 67-63-0 B2, D2B (including 70%)

Canada - WHMIS - Ingredient Disclosure List

• Isopropyl alcohol 67-63-0 1 %

Environment

Canada - CEPA - Priority Substances List

• Isopropyl alcohol 67-63-0 Not Listed

China

Environment

China - Ozone Depleting Substances - First Schedule

• Isopropyl alcohol 67-63-0 Not Listed

China - Ozone Depleting Substances - Second Schedule

• Isopropyl alcohol	67-63-0	Not Listed
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China - Ozone Depleting Substances - Third Schedule

• Isopropyl alcohol	67-63-0	Not Listed
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Other**China - Annex I & II - Controlled Chemicals Lists**

• Isopropyl alcohol	67-63-0	Not Listed
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China - Dangerous Goods List

• Isopropyl alcohol	67-63-0	
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China - Export Control List - Part I Chemicals

• Isopropyl alcohol	67-63-0	Not Listed
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Europe**Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Isopropyl alcohol	67-63-0	F; R11 Xi; R36 R67
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Isopropyl alcohol	67-63-0	Not Listed
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Isopropyl alcohol	67-63-0	F Xi R:11-36-67 S:(2)-7-16-24/25-26
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Isopropyl alcohol	67-63-0	Not Listed
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Isopropyl alcohol	67-63-0	S:(2)-7-16-24/25-26
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Germany**Environment****Germany - TA Luft - Types and Classes**

• Isopropyl alcohol	67-63-0	Not Listed
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Germany - Water Classification (VwVwS) - Annex 1

• Isopropyl alcohol	67-63-0	Not Listed
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Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Isopropyl alcohol	67-63-0	ID Number 135, hazard class 1 - low hazard to waters
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Germany - Water Classification (VwVwS) - Annex 3

• Isopropyl alcohol	67-63-0	Not Listed
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Other**Germany - Specifically Regulated Chemicals in TRGS**

• Isopropyl alcohol	67-63-0	Not Listed
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Portugal

Other

Portugal - Prohibited Substances

• Isopropyl alcohol	67-63-0	Not Listed
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United Kingdom

Environment

United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air

• Isopropyl alcohol	67-63-0	Not Listed
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Other

United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review

• Isopropyl alcohol	67-63-0	Not Listed
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United Kingdom - List of Dangerous Substances in Water

• Isopropyl alcohol	67-63-0	Not Listed
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United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - OSHA - Specifically Regulated Chemicals

• Isopropyl alcohol	67-63-0	Not Listed
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Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Isopropyl alcohol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
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U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Isopropyl alcohol	67-63-0	Not Listed
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United States - California

Environment**U.S. - California - Proposition 65 - Carcinogens List**

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - California - Proposition 65 - Developmental Toxicity

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Isopropyl alcohol	67-63-0	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Isopropyl alcohol	67-63-0	Not Listed
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United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Isopropyl alcohol	67-63-0	
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U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Isopropyl alcohol	67-63-0	Not Listed
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15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information**Relevant Phrases (code & full text)**

- H319 - Causes serious eye irritation
- H225 - Highly flammable liquid and vapour
- H336 - May cause drowsiness or dizziness
- R11 - Highly flammable.
- R36 - Irritating to eyes.
- R67 - Vapours may cause drowsiness and dizziness.

Last Revision Date

- 08/September/2014

Preparation Date

- 08/September/2014

Disclaimer/Statement of Liability

- To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

Key to abbreviations

NDA = No Data Available