# Safety Data Sheet



# Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier	
Product Name	<ul> <li>Isopropyl Alcohol, Reagent Grade, TSI P/N 8016, 8016M</li> </ul>
Synonyms	<ul> <li>2-propanol; IPA; Isopropanol; sec-propyl alcohol</li> </ul>
SDS Number/Grade	Document Number 6010486 Rev A
	Container size: box of x16 bottles, 30ml each. Box contains less than 500ml of liquid.
1.2 Relevant identified us	ses of the substance or mixture and uses advised against
Relevant identified use(s)	For use in PortaCount® Respirator Fit Tester and Condensation Particle Counters
1.3 Details of the supplie	r of the safety data sheet
Manufacturer	TSI Incorporated
	500 Cardigan Road Shoreview, MN 55126 United States answers@tsi.com www.tsi.com
Telephone (General	) • +1-800-874-2811

### 1.4 Emergency telephone number

Manufacturer • +1-800-424-9300 - Chemtrec

## **Section 2: Hazards Identification**

### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

## 2.1 Classification of the substance or mixture

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CLP

Flammable Liquids 2 - H225 Eye Irritation 2 - H319 Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336

### 2.2 Label Elements

CLP

DANGER



Hazard statements •

H225 - Highly flammable liquid and vapour H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness

### Precautionary statements

Prevention •	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground and/or bond container and receiving equipment.</li> <li>P241 - Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P261 - Avoid breathing mist, vapours and/or spray.</li> <li>P264 - Wash thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> </ul>
Response •	<ul> <li>P370+P378 - In case of fire: Use appropriate media for extinction.</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P312 - Call a POISON CENTER/doctor if you feel unwell.</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P361 - Take off immediately all contaminated clothing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> </ul>
Storage/Disposal •	<ul> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P235 - Keep cool.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.</li> </ul>
2.3 Other Hazards	
CLP ·	According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

# Section 3 - Composition/Information on Ingredients

# 3.1 Substances

Composition								
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments			
lsopropyl alcohol	CAS:67-63-0 EC Number:200- 661-7 EU Index:603- 117-00-0	98% TO 100%	Ingestion/Oral-Rat LD50 • 5000 mg/kg Skin-Rabbit LD50 • 12800 mg/kg Inhalation-Rat LC50 • 72600 mg/m <sup>3</sup>	<b>EU CLP:</b> Annex VI, Table 3.1: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3:Narc., H336	NDA			

# 3.2 Mixtures

• Material does not meet the criteria of a mixture.

# **Section 4 - First Aid Measures**

# 4.1 Description of first aid measures

Inhalation	<ul> <li>Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.</li> </ul>
Skin	<ul> <li>In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. Get medical attention if symptoms occur.</li> </ul>
Еуе	• In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If easy to do, remove contact lenses, if worn. Get medical attention.
Ingestion	<ul> <li>Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get in the lungs.</li> </ul>
4.2 Most important	symptoms and effects, both acute and delayed
	<ul> <li>Refer to Section 11 - Toxicological Information.</li> </ul>

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to	Physician
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 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

Suitable Extinguishing Media	•	CAUTION: For mixtures containing a high percentage of an alcohol or polar solvent, alcohol-resistant foam may be more effective. LARGE FIRES: Water spray, fog or alcohol-resistant foam. SMALL FIRES: Dry chemical, CO2, water spray or alcohol-resistant foam.
Unsuitable Extinguishing Media	•	Avoid using direct water stream.
5.2 Special hazards arisir	۱g	from the substance or mixture
5.2 Special nazaros arisin Unusual Fire and Explosion Hazards		HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Containers may explode when heated. Many liquids are lighter than water. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.
Hazardous Combustion Products	•	No data available

### **5.3 Advice for firefighters**

Structural firefighters' protective clothing will only provide limited protection.
 Wear positive pressure self-contained breathing apparatus (SCBA).
 Move containers from fire area if you can do it without risk.
 LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

### **Section 6 - Accidental Release Measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions	<ul> <li>CAUTION: Victim may be a source of contamination. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE)</li> </ul>
Emergency Procedures	<ul> <li>As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no</li> </ul>

smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

### 6.2 Environmental precautions

• Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures	Stop leak if you can do it without risk.     Absorb or cover with dry earth, sand or other non-combustible material and transfer to     containers
	Use clean non-sparking tools to collect absorbed material.
	A vapor suppressing foam may be used to reduce vapors.
	All equipment used when handling the product must be grounded.
	LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
	LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in
	CIOSED SDACES.

### 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

Hand	lir	۱g
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 Keep away from heat, sparks, and flame. Keep from direct sunlight. Do not use sparking tools. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Wear appropriate personal protective equipment, avoid direct contact. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

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

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Storage
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• Store in a tightly closed container. Store in a cool/low-temperature, well-ventilated place. Ground and bond container and receiving equipment. Keep away from food, drink and animal feeding stuffs.

### 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	Austria	Belgium Czech Republic		Denmark	Estonia			
	Ceilings	Not established	Not established	1000 mg/m3 Ceiling	Not established	Not established			
	TWAs	Not established	200 ppm TWA; 500 mg/m3 TWA	500 mg/m3 TWA	200 ppm TWA; 490 mg/m3 TWA	150 ppm TWA; 350 mg/m3 TWA			
	MAKs	200 ppm TWA [TMW] (short time value for large casting); 500 mg/m3 TWA [TMW] (short time value for large casting)	Not established	Not established	Not established	Not established			
Isopropyl alcohol (67-63-0)		800 ppm STEL [KZW] (4 X 15 min); 2000 mg/m3 STEL [KZW] (4 X 15 min); 800 ppm STEL [KZW] (STEL							

	STEL	s for la till 12. min) STE for la till 12 min)	arge casting valid 2/31/2013, 4 X 30 ; 2000 mg/m3 L [KZW] (STEL arge casting valid 2/31/2013, 4 X 30	400 ppm mg/m3 S	STEL; 1000 TEL	Not establishe	ed	Not established		250 ppm STEL; 600 mg/m3 STEL
			Ex	posure	Limits/Gu	idelines (Co	on't.)	-		
	Res	ult	Finland	F	rance	Germany	DFG	Germany TRG	S	Greece
Isopropyl alcohol (67-63-0)		200 unde mg/r unde	200 ppm TWA (listed under Propanol); 500 mg/m3 TWA (listed under Propanol)		Not established Not established		200 ppm TWA AG (The risk of damage to the embryo or fetus can be excluded when Ad and BGW values a observed, exposu factor 2); 500 mg/r TWA AGW (The ri of damage to the embryo or fetus ca be excluded wher AGW and BGW values are observ exposure factor 2	W ge GW are ire m3 sk an i ed, )	400 ppm TWA; 980 mg/m3 TWA	
	STEL	_s 250 mg/r	ppm STEL; 620 n3 STEL	400 ppm STEL [VLCT]; 980 mg/m3 STEL [VLCT]		Not established		Not established		500 ppm STEL; 1225 mg/m3 STEL
	Ceilir	ngs Not	established	Not established		400 ppm Peak; 1000 mg/m3 Peak		Not established		Not established
	MAK	s Not	established	Not established		200 ppm TWA MAK; 500 mg/m3 TWA MAK		Not established		Not established
			Ex	posure	Limits/Gu	idelines (Co	on't.)			
	Res	ult	Hungary	lc	eland	Irelan	nd	Latvia		Norway
	TWA	.s 500	mg/m3 TWA [AK]	200 ppm mg/m3 T	TWA; 490 WA	200 ppm TW/	A	Not established		100 ppm TWA; 245 mg/m3 TWA
Isopropyl alcohol (67-63-0)	STEL	_s 2000 [CK]	) mg/m3 STEL	TEL Not established		400 ppm STEL		600 mg/m3 STEL		Not established
	Ceilir	ngs Not	established	400 ppm Ceiling; 980 mg/m3 Ceiling		Not established		Not established		Not established
			Ex	posure	Limits/Gu	idelines (Co	on't.)			
	Res	ult	Poland	Po	rtugal	Russi	ia	Slovak Republ	ic	Slovenia
	STEL	s [NDS	1200 mg/m3 STEL [NDSCh]		STEL [VLE-	50 mg/m3 STI (vapor)	EL	Not established		800 ppm STEL; 2000 mg/m3 STEL
Isopropyl alcohol (67-63-0)	TWA	.s 900 [NDS	900 mg/m3 TWA [NDS]		TWA [VLE-	10 mg/m3 TWA (vapor)		200 ppm TWA; 500 mg/m3 TWA		200 ppm TWA; 500 mg/m3 TWA
	Ceilir	ngs Not	established	Not estal	olished	Not establishe	ed	1000 mg/m3 Ceilin	g	Not established
			Ex	posure	Limits/Gu	idelines (Co	on't.)			
		Result	Spain		Swe	den	S	witzerland		United Kingdom
MA		MAKs	Not established	Not establish		ed 200 ppm mg/m3 T		TWA [MAK]; 500 WA [MAK]		established
ST		STELs	400 ppm STEL [VL ELs 1000 mg/m3 STEL EC]		250 ppm Indi 600 mg/m3 Ir STLV	cative STLV; ndicative 400 ppm 1000 mg.		STEL [KZW]; 500 /m3 STEL [KZW] mg/		ppm STEL; 1250 n3 STEL

Isopropyl alcohol (67-63-0)	TWAs	200 ppm TWA [VLA-ED] (the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited); 500 mg/m3 TWA [VLA-ED] (the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited)	150 ppm LLV; 350 mg/m3 LLV	Not established	400 ppm TWA; 999 mg/m3 TWA
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# 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. Use explosion-proof electrical/ventilating/lighting/equipment.
Personal Protective Equipment	t	
Respiratory	•	Follow the respirator regulations found in HSE 282/28 or European Standard EN 149. Use a European Standard EN 149 or HSE 282/28 approved respirator if exposure limits are exceeded or symptoms are experienced.
Eye/Face	•	Wear protective eyewear (goggles, face shield, or safety glasses).

- Wear chemical resistant gloves.
- **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.
- Additional Protection An eye wash and safety shower must be available in the immediate work area.

# Measures

#### Key to abbreviations

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

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

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

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

# **Section 9 - Physical and Chemical Properties**

# 9.1 Information on Basic Physical and Chemical Properties

Material Description					
Physical Form	Liquid	Appearance/Description	Clear liquid with solvent odor.		
Color	Clear	Odor	Solvent		
Odor Threshold	Data lacking				
General Properties					
Boiling Point	82 °C(179.6 °F)	Melting Point/Freezing Point	-88.5 °C(-127.3 °F)		
Decomposition Temperature	Data lacking	pН	Data lacking		
Specific Gravity/Relative Density	= 0.79 @ 20 °C(68 °F) Water=1	Water Solubility	Miscible		
Viscosity	Data lacking	Explosive Properties	Data lacking		
Oxidizing Properties:	Data lacking				
Volatility					
Vapor Pressure	6 kPa @ 25 °C(77 °F)	Vapor Density	2.1 Air=1		
Evaporation Rate	2.8 n-Butyl Acetate = 1				

#### Flammability

Flash Point	12 °C(53.6 °F) CC (Closed Cup)	UEL	12.7 %		
LEL	2 %	Autoignition	399 °C(750.2 °F)		
Flammability (solid, gas)	Data lacking				
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 under normal temperatures and pressures.

### **10.3 Possibility of hazardous reactions**

• Hazardous polymerization will not occur.

### **10.4 Conditions to avoid**

• Heat, sparks, flames, sunlight.

### **10.5 Incompatible materials**

• Strong oxidizing agents. Acetylene. Acids. Chlorine. Hydrogen peroxide (H202). Ethylene Oxide. Sulfuric Acid. Isocyanates. Aluminum.

### **10.6 Hazardous decomposition products**

• Thermal decomposition may release oxides of carbon.

# **Section 11 - Toxicological Information**

# **11.1 Information on toxicological effects**

Components				
Isopropyl 6 alcohol - (98% TO 6 100%) -	<ul> <li>Acute Toxicity: Ingestion/Oral-Rat LD50 • 5000 mg/kg; <i>Behavioral</i>:General anesthetic; Inhalation-Rat LC50 • 16000 ppm 8 Hour(s); Inhalation-Guinea Pig TCLo • 980 mg/m<sup>3</sup> 24 Hour(s); <i>Sense Organs and Special Senses:Ear</i>:Other; <i>Behavioral</i>:General anesthetic; <i>Lungs, Thorax, or Respiration</i>:Other changes; Skin-Rabbit LD50 • 12800 mg/kg; Irritation: Eye-Rabbit • 100 mg • Severe irritation; Skin-Rabbit • 500 mg • Mildi irritation; Multi-dose Toxicity: Inhalation-Mouse TCLo • 5000 ppm 6 Hour(s) 13 Week(s)-Intermittent; <i>Behavioral</i>:General anesthetic; <i>Behavioral</i>:Ataxia; <i>Liver</i>:Changes in liver weight; Inhalation-Rat TCLo • 500 mg/m<sup>3</sup> 4 Hour(s) 122 Day(s)-Intermittent; <i>Liver</i>:Multiple effects; <i>Kidney, Ureter, and Bladder</i>:Other changes; <i>Nutritional and Gross Metabolic:Gross Metabolite</i> <i>Changes</i>:Weight Ioss or decreased weight gain; Inhalation-Rat TCLo • 20 mg/m<sup>3</sup> 24 Hour(s) 90 Day(s)-Continuous; <i>Brain</i> <i>and Coverings</i>:Other degenerative changes; <i>Lungs, Thorax, or Respiration</i>:Other changes; <i>Liver</i>:Multiple effects; Inhalation-Rat TCLo • 1000 mg/m<sup>3</sup> 6 Hour(s) 4 Week(s)-Intermittent; <i>Sense Organs and Special Senses:Eye</i>:Optic nerve neuropathy; Inhalation-Rat TCLo • 1000 mg/m<sup>3</sup> 4 Hour(s) 17 Week(s)-Intermittent; <i>Kidney, Ureter, and Bladder</i>:Other changes in urine composition; <i>Blood</i>:Changes in serum composition (e.g., TP, bilirubin cholesterol); <i>Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels</i>:True cholinesterase; Mutagen: Cytogenetic analysis • Inhalation-Rat • 1030 µg/m<sup>3</sup> 16 Week(s)-Intermittent; Reproductive: Inhalation-Rat TCLo • 10000 ppm 7 Hour(s)(1-19D preg); <i>Reproductive Effects:Effects on</i> <i>Embryo or Fetus</i>:Fetal death; Inhalation-Rat TCLo • 3500 ppm 7 Hour(s)(1-19D preg); <i>Reproductive Effects:Effects on</i> <i>Embryo or Fetus</i>:Fetotoxicity (except death, e.g., stunted fetus); Inhalation-Rat TCLo • 7000 ppm 7 Hour(s)(1-19D preg); <i>Reproductive Effects:Specific Developmental Abnormalities</i>:Musculoskeletal system</li> </ul>			

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking
Skin corrosion/Irritation	EU/CLP • Data lacking
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2
Skin sensitization	EU/CLP • Data lacking
Respiratory sensitization	EU/CLP • Data lacking
Aspiration Hazard	EU/CLP • Data lacking
Carcinogenicity	EU/CLP • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking
STOT-SE	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	EU/CLP • Data lacking

## **Potential Health Effects**

# Inhalation

Acute (Immediate)	<ul> <li>May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death. May cause irritation to the mucous membranes and upper respiratory tract.</li> </ul>
Chronic (Delayed)	No data available.
Skin	
Acute (Immediate)	May cause irritation.
Chronic (Delayed)	No data available.
Eye	
Acute (Immediate)	Causes serious eye irritation.
Chronic (Delayed)	No data available.
Ingestion	
Acute (Immediate)	<ul> <li>May cause irritation. May cause nausea, stomach pain and vomiting.</li> </ul>
Chronic (Delayed)	No data available.
Koy to abbroviations	

#### 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

• Expected to be readily biodegradable.

# 12.3 Bioaccumulative potential

• Material data lacking.

# 12.4 Mobility in Soil

• This product is partly soluble in water. May spread in the aquatic environment.

# 12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment has been conducted.

# 12.6 Other adverse effects

 The product components are no classified as environmentally hazardous. However, this does not exclude the possibly that large or frequent spill can have a harmful or damaging effect on the environment.

# Section 13 - Disposal Considerations

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international regulations.

# 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

# 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	UN1219	Isopropyl alcohol	3	II	NDA
TDG	UN1219	ISOPROPYL ALCOHOL	3	I	NDA
IMO/IMDG	UN1219	ISOPROPYL ALCOHOL	3	II	NDA
IATA/ICAO	UN1219	Isopropyl alcohol	3	II	NDA

14.6 Special precautions for None specified. user

Data lacking.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

# Section 15 - Regulatory Information

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

Inventory				
Component	CAS	EU EINECS	EU ELNICS	
Isopropyl alcohol	67-63-0	Yes	No	

### Bulgaria

Environment

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute				
Isopropyl alcohol	67-63-0	0.6 ma/m3 MAHCL		
		0		
Croatia				
Environment				
Environment				

# Croatia - Air Quality - Limit Values of Pollutants in Air

Isopropyl alcohol

Not Listed

67-63-0

Germany		
Environment Germany - TA Luft - Emission Limits for Organic Substances • Isopropyl alcohol	67-63-0	Not Listed
Greece		
Environment Greece - Water Quality - Industrial Emission Limit Values (ELVs) - Daily • Isopropyl alcohol	67-63-0	Not Listed
Luxembourg		
Labor Luxembourg - Protection of Workers Exposure to Chemical Agents • Isopropyl alcohol	67-63-0	Not Listed
Other Agency Information		
Other AIHA - Emergency Response Planning Guidelines - ERPG-1 Values • Isopropyl alcohol	67-63-0	Not Listed
AIHA - Emergency Response Planning Guidelines - ERPG-2 Values • Isopropyl alcohol	67-63-0	Not Listed
AIHA - Emergency Response Planning Guidelines - ERPG-3 Values • Isopropyl alcohol	67-63-0	Not Listed
AIHA - Odor Threshold Values • Isopropyl alcohol	67-63-0	1 ppm odor threshold value
Slovak Republic		
Labor Slovak Republic - Selected Chemical Agents and Usages Which are Not Permitted • Isopropyl alcohol	67-63-0	Not Listed
Environment Slovak Republic - Waste Regulations - List of Harmful Substances • Isopropyl alcohol	67-63-0	Not Listed
United Kingdom		
Environment United Kingdom - Pollution Inventory - Form PI 1 - Part 2 - Thresholds for Releases to A • Isopropyl alcohol	<b>Air</b> 67-63-0	Not Listed
Other United Kingdom - Major Accidents - Toxic Equivalent Factors (TEF) • Isopropyl alcohol	67-63-0	Not Listed
United Kingdom - Major Accidents - Qualifying Quantities for Accident Prevention  • Isopropyl alcohol	67-63-0	Not Listed
United Kingdom - Major Accidents - Qualifying Quantities for Safety Reporting		

Isopropyl alcohol	67-63-0	Not Listed
United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review <ul> <li>Isopropyl alcohol</li> </ul>	67-63-0	Not Listed

# **15.2 Chemical Safety Assessment**

• No Chemical Safety Assessment has been carried out.

Section 16 - Other Information	
Revision Date Last Revision Date	<ul> <li>19/January/2017</li> <li>17/January/2017</li> </ul>
Preparation Date Disclaimer/Statement of Liability	<ul> <li>17/January/2017</li> <li>THE INFORMATION PRESENTED IN THIS SAFETY DATA SHEET (SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED 'AS IS," AND TSI INCORPORATED MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON- INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. THIS SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, TSI INCORPORATED ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. TSI INCORPORATED REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS SDS AVAILABLE TO YOUR EMPLOYEES.</li> </ul>

Key to abbreviations

NDA = No Data Available