# Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: March 17, 2020

1 Identification
· Product identifier
<ul> <li>Trade name: <u>Isopropanol (Isopropyl Alcohol),</u></li> <li>Product code: IP1005</li> <li>CAS Number: 67-63-0</li> </ul>
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> </ul>
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com</li> <li>Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291</li> </ul>
<ul> <li>Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)</li> </ul>
2 Hazard(s) identification
<ul> <li>Classification of the substance or mixture</li> <li>Flam. Liq. 2 H225 Highly flammable liquid and vapor.</li> <li>Eye Irrit. 2A H319 Causes serious eye irritation.</li> <li>STOT SE 3 H336 May cause drowsiness or dizziness.</li> </ul>
<ul> <li>Label elements</li> <li>GHS label elements</li> <li>The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms:</li> </ul>
GHS02 GHS07
<ul> <li>Signal word: Danger</li> <li>Hazard statements:</li> <li>H225 Highly flammable liquid and vapor.</li> <li>H319 Causes serious eye irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>Precautionary statements:</li> </ul>

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#### Trade name: Isopropanol (Isopropyl Alcohol),

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P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	3 If on skin (or hair): 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	3 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
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 in accordance with local/regional/national/international
	regulations.
Other hazards	There are no other hazards not otherwise classified that have been identified.

#### **3** Composition/information on ingredients

# Chemical characterization: Substances CAS No. Description 67-63-0 Propan-2-ol

#### 4 First-aid measures

<sup>•</sup> Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Most important symptoms and effects, both acute and delayed:
- Dizziness

Coughing Causes eye irritation.

Vision disorders.

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Breathing difficulty
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
Acidosis
Blindness
Disorientation
Unconsciousness
Danger:
May cause drowsiness or dizziness.
Danger of impaired breathing.
Causes mild skin irritation.
Indication of any immediate medical attention and special treatment needed:
If necessary oxygen respiration treatment.
Medical supervision for at least 48 hours.
If medical advice is needed, have product container or label at hand.

### **5** Fire-fighting measures

#### • Extinguishing media

• Suitable extinguishing agents: Alcohol resistant foam Carbon dioxide Gaseous extinguishing agents Water fog / haze Water spray Fire-extinguishing powder • For safety reasons unsuitable extinguishing agents: Water stream. · Special hazards arising from the substance or mixture Highly flammable liquid and vapor. Formation of toxic gases is possible during heating or in case of fire. Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. <sup>•</sup> Additional information: Eliminate all ignition sources if safe to do so. Use large quantities of foam as it is partially destroyed by the product. Cool endangered receptacles with water in flooding quantities.

### 6 Accidental release measures

#### <sup>•</sup> Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from ignition sources.

Protect from heat.

Wear protective equipment. Keep unprotected persons away.

• Environmental precautions Avoid release to the environment.

· Methods and material for containment and cleaning up

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Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

#### · Handling

• **Precautions for safe handling:** Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Avoid contact with the eyes and skin.

Avoid breathing mist, vapors, or spray.

#### · Information about protection against explosions and fires:

Highly flammable liquid and vapor.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

#### <sup>•</sup> Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

- Avoid storage near extreme heat, ignition sources or open flame.
- Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

#### · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep containers tightly sealed.

Specific end use(s) No relevant information available.

#### 8 Exposure controls/personal protection

#### Control parameters

· Components	with limit values that require monitoring at the workplace:
67-63-0 Propa	ın-2-ol
PEL (USA)	Long-term value: 980 mg/m³, 400 ppm
REL (USA)	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV (USA)	Short-term value: 984 mg/m³, 400 ppm Long-term value: 492 mg/m³, 200 ppm BEI
EL (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm
EV (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm
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LMPE (Me	xico) Short-term value: 400 p Long-term value: 200 p		(Cont'd. of page 4)
	A4, IBE	F	
· Ingredien	s with biological limit value	es:	
67-63-0 Pi			
BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of v Parameter: Acetone (backg		
General p The usual Keep away Immediate Wash han Engineeri	from foodstuffs, beverages a y remove all soiled and conta ts before breaks and at the e <b>ng controls:</b> Provide adequa <b>equipment:</b> In case of inade	nandling chemicals should be followed. and feed. aminated clothing. nd of work.	
m	otective gloves		
Natural rub Neoprene Butyl rubbe	film gloves. ber, NR gloves er, BR <b>le are gloves made of the f</b>	ollowing materials: PVA gloves	
Sa Sa	ifety glasses		
<ul> <li>Body prot</li> <li>Limitatio</li> </ul>	ection: Protective work cloth	erning the use of protective eyewear. ing osure into the environment	
9 Physica	and chemical propert	ies	
Informati	on on basic physical and	d chamical proportios	
		a chemical properties	
Form:		Fluid	
Color:		Clear	
· Odor:		Alcohol-like	
· Odor thre	shold:	Not determined.	
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pH-value:	Not determined.
Melting point/Melting range:	-89.5 °C (-129.1 °F) 82 °C (179.6 °F)
Boiling point/Boiling range:	
Flash point:	13 °C (55.4 °F)
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
Explosion limits	
Lower:	2 Vol %
Upper:	12 Vol %
Oxidizing properties:	Non-oxidizing.
Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
Density at 20 °C (68 °F):	0.79 g/cm³ (6.59 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with	
Water at 20 °C (68 °F):	1 g/l
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity	
Dynamic at 20 °C (68 °F):	2.43 mPas
Kinematic:	Not determined.
Other information	No relevant information available.

#### 10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability: Stable under normal temperatures and pressures.

#### Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

#### Possibility of hazardous reactions

Highly flammable liquid and vapor.

Reacts with oxidizing agents.

Reacts with strong acids.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Toxic fumes may be released if heated above the decomposition point.

• Conditions to avoid Excessive heat.

· Incompatible materials Oxidizers

· Hazardous decomposition products

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Under fire conditions only: Carbon monoxide and carbon dioxide

## **11 Toxicological information**

	•	ed on available data, the classification criteria are not met.	
		at are relevant for classification:	
67-63-0 Pi	•		
	LD50	5045 mg/kg (rat)	
	LD50	12800 mg/kg (rabbit)	
		30 mg/l (rat)	
· Primary ir			
		irritant effect on skin and mucous membranes.	
• On the ey		g effect. ed on available data, the classification criteria are not met.	
Substance		I Agency for Research on Cancer):	
•		icology Program):	
Substance	e is not list	ted.	
	• •	tional Safety & Health Administration):	
Substance			
	route(s)	of exposure:	
Ingestion. Inhalation.			
Eye contac			
Skin conta			
<sup>.</sup> Germ cell	mutager	nicity: Based on available data, the classification criteria are not met.	
		ased on available data, the classification criteria are not met.	
•		city: Based on available data, the classification criteria are not met.	
		sure: May cause drowsiness or dizziness.	
		<b>posure:</b> Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.	
Aspiration	1 1182810.		
12 Ecologi	cal info	rmation	
<sup>.</sup> Toxicity			
	oxicity No	o relevant information available.	
		degradability No relevant information available.	

- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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· Other adverse effects No relevant information available.

## 13 Disposal considerations

#### <sup>·</sup> Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

#### <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, ADR/RID/ADN, IMDG, IATA	UN1219
UN proper shipping name	
DOT	
ADR/RID/ADN, IMDG, IATA	ISOPROPANOL (ISOPROPYL ALCOHOL)
Transport hazard class(es)	
DOT	
RUMMER (DR	
Class	3
Label	3
ADR/RID/ADN	
3	
Class	3 (F1)
Label	3
IMDG, IATA	
Class	3
Label	3
Packing group	
DOT, ADR/RID/ADN, IMDG, IATA	II

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	(Cont'd. of pa
<sup>•</sup> Environmental hazards	Not applicable.
<sup>·</sup> Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler co	
· EMS Number:	F-E,S-D
Transport in bulk according to An	
MARPOL73/78 and the IBC Code	Not applicable.
6 Regulatory information	
Safety, health and environmenta	I regulations/legislation specific for the substance
mixture	
· United States (USA)	
· SARA	
Section 302 (extremely hazardous sul	ostances):
Substance is not listed.	
· Section 313 (Specific toxic chemical I	istings):
Substance is listed.	
· TSCA (Toxic Substances Control Act)	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
Substance is not listed.	
· Chemicals known to cause developm	ental toxicity for females:
Substance is not listed.	
· Chemicals known to cause developm	ental toxicity for males:
Substance is not listed.	
· Chemicals known to cause developm	ental toxicity:
Substance is not listed.	
EPA (Environmental Protection Agend	
Substance is not listed.	<u>.</u>
· IARC (International Agency for Resea	rch on Cancer):
	DSL):
<ul> <li>Canadian Domestic Substances List (</li> </ul>	

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

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(Cont'd. of page 9) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 · Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com