acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Revision: January 07, 2019

1 Identification Product identifier · Trade name: Hydrochloric Acid, 5% v/v in IPA · Product code: HA6305SS Recommended use and restriction on use · Recommended use: Laboratory chemicals · Restrictions on use: No relevant information available. [•] Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com **Emergency telephone number:** ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification · Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Met. Corr.1 H290 May be corrosive to metals. Skin Irrit. 2 H315 Causes skin irritation. Eye Dam. 1 H318 Causes serious eye damage. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms: GHS02 GHS05 GHS07 · Signal word: Danger · Hazard statements: H225 Highly flammable liquid and vapor. H290 May be corrosive to metals. H315 Causes skin irritation. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. · Precautionary statements: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. Keep only in original container. P234

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	(Cont'd. of page 1)
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 mist, vapors, or 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	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	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use for extinction: Alcohol resistant foam or water spray.
P390	Absorb spillage to prevent material damage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
[·] Other hazards ⊺	here are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:	
67-63-0 Propan-2-ol	92.7%
 Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336 	
7647-01-0 hydrochloric acid	2.7%
Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	
7732-18-5 Water	4.6%

4 First-aid measures

[•] Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- 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 continues, consult a doctor.

· After eye contact:

Protect unharmed eye.

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(Cont'd. of page 2) Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then 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 Couahina Strong irritant with the danger of severe eye injury. Causes skin irritation. Gastric or intestinal disorders when ingested. Acidosis Disorientation Danger: Danger of gastric perforation. Causes mild skin irritation. Causes serious eye damage. May cause drowsiness or dizziness. Indication of any immediate medical attention and special treatment needed: Medical supervision for at least 48 hours. If necessary oxygen respiration treatment. 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. During heating or in case of fire poisonous gases are produced. Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. [•] 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

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(Cont'd. of page 3) Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. **Environmental precautions** Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Methods and material for containment and cleaning up 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: Prevent formation of aerosols. Avoid splashes or spray in enclosed areas. Use only in well ventilated areas. 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. 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. Store away from metals. Do not store together with alkalis (caustic solutions). Further information about storage conditions: Keep containers tightly sealed. This product is hygroscopic. 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 Propan-2-ol

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(Cont'd. of page 4) PEL (USA) Long-term value: 980 mg/m³, 400 ppm Short-term value: 1225 mg/m³, 500 ppm REL (USA) Long-term value: 980 mg/m³, 400 ppm Short-term value: 984 mg/m³, 400 ppm TLV (USA) Long-term value: 492 mg/m³, 200 ppm BEI EL (Canada) Short-term value: 400 ppm Long-term value: 200 ppm Short-term value: 400 ppm EV (Canada) Long-term value: 200 ppm LMPE (Mexico) Short-term value: 400 ppm Long-term value: 200 ppm A4, IBE Ingredients with biological limit values: 67-63-0 Propan-2-ol BEI (USA) 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) • Exposure controls · General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. · Engineering controls: Provide adequate ventilation. · **Breathing equipment:** Suitable respiratory protective device recommended. · Protection of hands: Protective gloves Material of gloves Fluorocarbon rubber (Viton) Butyl rubber, BR Natural rubber, NR Laminated film gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Not suitable are gloves made of the following materials: PVC gloves **PVA** gloves Eye protection: Safety glasses Follow relevant national guidelines concerning the use of protective eyewear.

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· **Body protection:** Protective work clothing

· Limitation and supervision of exposure into the environment

No relevant information available.

Physical and chemical properties					
· Information on basic physical ar	nd chemical properties				
Appearance:					
Form:	Fluid				
Color:	Clear				
· Odor:	Alcohol-like				
· Odor threshold:	Not determined.				
· pH-value:	Not determined.				
• Melting point/Melting range:	-89.5 °C (-129.1 °F)				
 Boiling point/Boiling range: 	82 °C (179.6 °F)				
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:	Not determined.				
· 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	r): 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.

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ide name:							
							(Cont'd. of page
Chemical	stability:	Stable unde	r normal tempe	eratures and p	ressures.		
			itions to be a				
			ored according	to specification	ons.		
		ardous rea					
		id and vapo					
	h alkali (lye	oxidizing ag	ents.				
			ain product da	ses which for	n explosive mi	xtures with ai	r
					and/or when s		
			eated above t				
	ns to avo	-					
		s away - Do					
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IOXICOI	ogical ini	formation					
		xicologica	l effects				
Acute tox	icity:	-	l effects	cation:			
Acute tox LD/LC50	icity:	t are releva		cation:			
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Acute tox LD/LC50 67-63-0 P Oral Dermal	icity: values that ropan-2-ol LD50	t are releva 5,045 mg/kg	nt for classif io (rat) g (rabbit)	cation:			
Acute tox LD/LC50 67-63-0 P Oral Dermal Inhalative	icity: /alues that ropan-2-ol LD50 { LD50 { LC50/4h {	t are releva 5,045 mg/kg 12,800 mg/k 30 mg/l (rat)	nt for classif io (rat) g (rabbit)	cation:			
Acute tox LD/LC50 67-63-0 P Oral Dermal Inhalative Primary in	icity: /alues that ropan-2-ol LD50 { LD50 { LC50/4h { ritant effe	t are releva 5,045 mg/kg 12,800 mg/k 30 mg/l (rat)	nt for classif io (rat) g (rabbit)	cation:			
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• Acute effects (acute toxicity, irritation and corrosivity):

Vapors have narcotic effect.

Causes serious eye irritation.

Causes mild skin irritation.

• **Repeated dose toxicity:** No relevant information available.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

· Reproductive toxicity: Based on available data, the classification criteria are not met.

· STOT-single exposure: May cause drowsiness or dizziness.

· STOT-repeated exposure: Based on available data, the classification criteria are not met.

· Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

- · Persistence and 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.

- [•] Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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.

· Uncleaned packagings

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

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number

· DOT, ADR/RID/ADN, IMDG, IATA

UN2924

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Trade name: Hydrochloric Acid, 5% v/v in IPA (Cont'd. of page 8) UN proper shipping name Flammable liquids, corrosive, n.o.s. (ISOPROPANOL) · DOT FLAMMABLE LIQUID, CORROSIVE, N.O.S. · ADR/RID/ADN, IMDG, IATA (ISOPROPANOL) Transport hazard class(es) · DOT · Class 3 3, 8 · Label · ADR/RID/ADN 3 (FC) · Class · Label 3+8 · IMDG · Class 3 3/8 · Label ·IATA 3 · Class · Label 3 (8) Packing group DOT, ADR/RID/ADN, IMDG, IATA Ш • Environmental hazards Not applicable. · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 338 · EMS Number: F-E,S-C [•] Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

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Safety, health a mixture United States (US SARA	nd environmental regulations/legislation specific for the substance A)
	mely hazardous substances):
None of the ingredi	ents are listed.
· Section 355 (extre	mely hazardous substances):
None of the ingredi	ents are listed.
· Section 313 (Spec	ific toxic chemical listings):
All ingredients are I	isted.
· TSCA (Toxic Subs	tances Control Act)
All ingredients are I	isted.
· Proposition 65 (Ca	alifornia)
· Chemicals known	to cause cancer:
None of the ingredi	ents are listed.
· Chemicals known	to cause developmental toxicity for females:
None of the ingredi	ents are listed.
· Chemicals known	to cause developmental toxicity for males:
None of the ingredi	ents are listed.
· Chemicals known	to cause developmental toxicity:
None of the ingredi	ents are listed.
· EPA (Environmen	tal Protection Agency):
None of the ingredi	ents are listed.
· IARC (Internationa	I Agency for Research on Cancer):
67-63-0 Propan-2-	ol
· Canadian Domest	ic Substances List (DSL) (Substances not listed.):

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

- 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
- PBT: Persistant, Bio-accumulable, Toxic
- vPvB: very Persistent and very Bioaccumulative

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OSHA: Occupational Safety & Health Administration

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Flam. Liq. 2: Flammable liquids – Category 2 Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 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 Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com