Page: 1/11

# **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

#### 1 Identification

· Product identifier

· Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

· Product code: HA6098SS

· 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. Eye Irrit. 2A H319 Causes serious eye irritation.

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.

H319 Causes serious eye irritation.

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. P234 Keep only in original container.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

(Cont'd. on page 2)

Page: 2/11

## **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

### Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

	(Cont'd. of page 1)
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+P3	53 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+P3	38 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: 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	There are no other hazards not otherwise classified that have been identified

Other hazards There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

Chemical characterization: Substances

Component	is:	
67-63-0	Propan-2-ol	98.765%
	<ul><li>♠ Flam. Liq. 2, H225</li><li>♠ Eye Irrit. 2A, H319; STOT SE 3, H336</li></ul>	
7647-01-0	hydrochloric acid	0.434%
	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	-
7732-18-5	Water	0.739%
34722-90-2	Sodium $\alpha$ -(3-bromo-5-isopropyl-4-oxo-2-methyl-2,5-cyclohexadienylidene)-2-(3-bromo-4-hydroxy-5-isopropyl-2-methylphenyl)toluenesulphonate	0.062%

### 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 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.

(Cont'd. on page 3)

Page: 3/11

# **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

(Cont'd. of page 2)

#### · 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.

Gastric or intestinal disorders when ingested.

Breathing difficulty

Vision disorders.

Disorientation

#### · 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.

· 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

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

(Cont'd. on page 4)

## **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

(Cont'd. of page 3)

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.

Due to photo-sensitivity, store product in brown-glass or stainless steel receptacles.

### · Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

## 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 Prop	an-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

(Cont'd. on page 5)

Page: 5/11

## **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

(Cont'd. of page 4)

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 LMPE (Mexico) Short-term value: 400 ppm

Long-term value: 200 ppm

A4, ĪBE

#### · 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.

- · Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment

No relevant information available.

Page: 6/11

# **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

(Cont'd. of page 5)

9 Physical and chemical prope	erties
Information on basic physical a	and 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 ai 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/wat	ter): 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.

(Cont'd. on page 7)

Page: 7/11

## **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

(Cont'd. of page 6)

Reacts violently 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

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- · Incompatible materials No relevant information available.
- · Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

Chlorine compounds

### 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:

## 67-63-0 Propan-2-ol

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	5,045 mg/kg (rat) 12,800 mg/kg (rabbit)
Inhalative	LC50/4h	30 mg/l (rat)

- · Primary irritant effect:
- On the skin:

Causes mild skin irritation.

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

- · On the eye: Irritating effect.
- · Sensitization: Based on available data, the classification criteria are not met.

#### IARC (International Agency for Research on Cancer):

3

NTP (National Toxicology Program):

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity):

Vapors have narcotic effect.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Causes mild skin irritation.

· Repeated dose toxicity: No relevant information available.

(Cont'd. on page 8)

Page: 8/11

## **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

(Cont'd. of page 7)

- · 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
· UN proper shipping name · DOT · ADR/RID/ADN, IMDG, IATA	Flammable liquids, corrosive, n.o.s. (ISOPROPANOL) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL)
	(Cont'd. on page 9)

Page: 9/11

# **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

	(Cont'd. of	page
· Transport hazard class(es)		
·DOT		
Annual Lux		
· Class · Label	3 3, 8	
· ADR/RID/ADN		
· Class · Label	3 (FC) 3+8	
·IMDG		
<b>8</b>		
Class	3	
· Label	3/8	
· IATA		
Class	3	
Label	3 (8)	
· Packing group · DOT, ADR/RID/ADN, IMDG, IATA	II	
· Environmental hazards	Not applicable.	
· Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids 338 F-E,S-C	
Transport in bulk according to Anne. MARPOL73/78 and the IBC Code	x II of Not applicable.	

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)

(Cont'd. on page 10)

Page: 10/11

## **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

(Cont'd. of page 9)

·SARA

Section 302 (extremely hazardous substances):

Substance is not listed.

Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is listed.

· TSCA (Toxic Substances Control Act)

Substance is listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

· Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

EPA (Environmental Protection Agency):

Substance is not listed.

· IARC (International Agency for Research on Cancer):

3

· Canadian Domestic Substances List (DSL) (Substances not listed.):

Substance is 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

OSHA: Occupational Safety & Health Administration

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

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

(Cont'd. on page 11)

Page: 11/11

# **Safety Data Sheet**

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

Printing date: January 07, 2019 Revision: January 07, 2019

Trade name: Hydrochloric Acid, 0.12N, In Isopropanol

(Cont'd. of page 10)

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

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