Printing date 07/17/2024

Reviewed on 07/17/2024

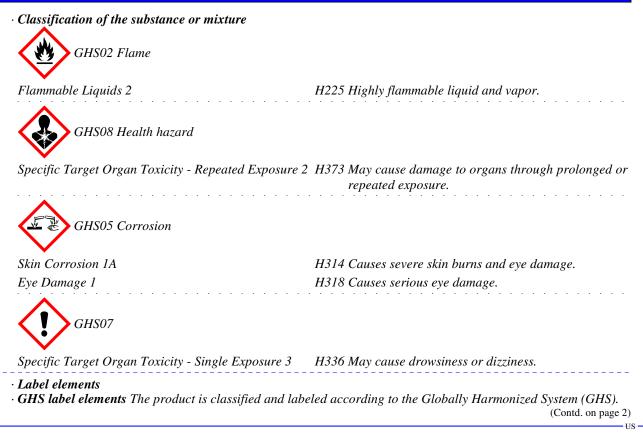
### **1** Identification

- · Product identifier
- Trade name: <u>Hydrochloric Acid 0.1N in</u> <u>IPA NIST Traceable, ASTM 4047-13</u>
- Article number: CHV003
- Details of the supplier of the safety data sheet
  Manufacturer/Supplier: Aqua Solutions, Inc.
  6913 Highway 225 DEER PARK, TX 77536 USA

800-256-2586

- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

### 2 Hazard(s) identification



Printing date 07/17/2024

Reviewed on 07/17/2024

Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13



 $(Contd. \ on \ page \ 3)$ 

US

Printing date 07/17/2024

Reviewed on 07/17/2024

#### Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13

(Contd. of page 2)

98.795%

1.205%

#### · Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

#### · Dangerous components:

CAS: 67-63-0	Isopropanol

CAS: 7647-01-0 Hydrochloric Acid

### 4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.

· Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
   Wear protective equipment. Keep unprotected persons away.
   Environmental precautions:
  - Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.

(Contd. on page 4)

<sup>·</sup> Advice for firefighters

US

*Printing date 07/17/2024* 

Reviewed on 07/17/2024

### Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13

		(Contd. of page 3	3)
	nated material as waste according to section 13.		
Ensure adequate			
· Reference to oth			
v	information on safe handling.		
•	information on personal protection equipment.		
See Section 13 fo	or disposal information.		
· Protective Action	n Criteria for Chemicals		
· PAC-1:			
CAS: 67-63-0	Isopropanol	400 ppm	
CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm	
· PAC-2:			Ī
CAS: 67-63-0	Isopropanol	2000* ppm	1
CAS: 7647-01-0	Hydrochloric Acid	22 ppm	
· PAC-3:			7
CAS: 67-63-0	Isopropanol	12000** ppm	1
CAS: 7647-01-0	Hydrochloric Acid	100 ppm	

### 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Store in cool, ary containons in well sected receptacies.
- $\cdot$  Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

PEL

· Components with limit values that require monitoring at the workplace:

CAS: 67-63-0 Isopropanol

Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

(Contd. on page 5)

<sup>-</sup> US -

Printing date 07/17/2024

Reviewed on 07/17/2024

## Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13

REL       Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm Long-term value: 400 ppm Long-term value: 200 ppm BEL A4         CAS: 7647-01-0 Hydrochloric Acid       NIOSH RECOMENDED EXP LIMI Ceiling limit value: 7.0 mg/m3 mg/m³ PEL         REL       Ceiling limit value: 7 mg/m³, 5 ppm Ceiling limit value: 7 mg/m³, 5 ppm TLV         CAS: 67-63-0 Isopropanol       Ceiling limit value: 2 ppm A4         Ingredients with biological limit values: CAS: 67-63-0 Isopropanol       Ceiling limit value: 2 ppm A4         D50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Acetone (background, nonspecific)       Additional information: The lists that were valid during the creation were used as be         • Exposure controls       • Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes. Avoid contact with the eyes and skin.         Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         • Protection of hands:         Word	(Contd. of page 4)
TLV       Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4         CAS: 7647-01-0 Hydrochloric Acid       NIOSH RECOMENDED EXP LIMI Ceiling limit value: 7.0 mg/m3 mg/m3 PEL         RE       Ceiling limit value: 7 mg/m3, 5 ppm REL         Ceiling limit value: 7 mg/m3, 5 ppm TLV       Ceiling limit value: 2 ppm A4         • Ingredients with biological limit values: CAS: 67-63-0 Isopropanol       Ceiling limit value: 2 ppm A4         • Ingredients with biological limit values: CAS: 67-63-0 Isopropanol       E         BEI       40 mg/L LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Acetone (background, nonspecific)       • Additional information: The lists that were valid during the creation were used as be         • Exposure controls       • Personal protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.         • Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intrespiratory protective device that is independent of circulating air.         • Protection of hands:	
Long-term value: 200 ppm BEI, A4         CAS: 7647-01-0 Hydrochloric Acid         NIOSH RECOMENDED EXP LIMI       Ceiling limit value: 7.0 mg/m3 mg/m3         PEL       Ceiling limit value: 7 mg/m3, 5 ppm         REL       Ceiling limit value: 7 mg/m3, 5 ppm         TLV       Ceiling limit value: 2 ppm A4         Ingredients with biological limit values:         CAS: 67-63-0 Isopropanol         BEI       40 mg/L         LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50 Acetone (background, nonspecific)         • Additional information: The lists that were valid during the creation were used as be         • Exposure controls         Personal protective equipment:         • General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes. Avoid contact with the eyes. Avoid contact with the eyes and skin.         Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
BEI, A4         CAS: 7647-01-0 Hydrochloric Acid         NIOSH RECOMENDED EXP LIMI       Ceiling limit value: 7.0 mg/m3 mg/m3         PEL       Ceiling limit value: 7 mg/m3, 5 ppm         REL       Ceiling limit value: 7 mg/m3, 5 ppm         TLV       Ceiling limit value: 2 ppm         A4       Ceiling limit value: 2 ppm         TLV       Ceiling limit value: 2 ppm         A4       Ceiling limit value: 2 ppm         A4       Ceiling limit value: 2 ppm         A4       CAS: 67-63-0 Isopropanol         BEI       40 mg/L         LD50 Intraperitoneal: urine       Time: end of shift at end of workweek         LD50: Acetone (background, nonspecific)       Additional information: The lists that were valid during the creation were used as be         • Exposure controls       Personal protective equipment:         • General protective and hygienic measures:       Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.       Wash hands before breaks and at the end of work.         Store protective clothing separately.       Avoid contact with the eyes.         Avoid contact with the eyes and skin.       Preathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air. </th <th></th>	
CAS: 7647-01-0 Hydrochloric Acid         NIOSH RECOMENDED EXP LIMI       Ceiling limit value: 7.0 mg/m3 mg/m3         PEL       Ceiling limit value: 7 mg/m3, 5 ppm         REL       Ceiling limit value: 7 mg/m3, 5 ppm         TLV       Ceiling limit value: 2 ppm         A4       A4         Ingredients with biological limit values:         CAS: 67-63-0 Isopropanol         BEI       40 mg/L         LD50 Intraperitoneal: urine       Time: end of shift at end of workweek         LD50: Acetone (background, nonspecific)         • Additional information: The lists that were valid during the creation were used as base in the protective equipment:         • General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
NIOSH RECOMENDED EXP LIMI       Ceiling limit value: 7.0 mg/m3 mg/m3         PEL       Ceiling limit value: 7 mg/m3, 5 ppm         REL       Ceiling limit value: 7 mg/m3, 5 ppm         TLV       Ceiling limit value: 2 ppm         A4       Ceiling limit value: 2 ppm         Ingredients with biological limit values:       Ceiling limit value: 2 ppm         CAS: 67-63-0 Isopropanol       E         BEI       40 mg/L         LD50 Intraperitoneal: urine       Time: end of shift at end of workweek         LD50: Acetone (background, nonspecific)         Additional information: The lists that were valid during the creation were used as base         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clohing separately.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
PEL       Ceiling limit value: 7 mg/m³, 5 ppm         REL       Ceiling limit value: 7 mg/m³, 5 ppm         TLV       Ceiling limit value: 2 ppm         A4       A4         Ingredients with biological limit values:         CAS: 67-63-0 Isopropanol         BEI       40 mg/L         LD50 Intraperitoneal: urine       Trime: end of shift at end of workweek         LD50: Acetone (background, nonspecific)         Additional information: The lists that were valid during the creation were used as base         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
REL       Ceiling limit value: 7 mg/m³, 5 ppm         TLV       Ceiling limit value: 2 ppm         A4       Ceiling limit value: 2 ppm         Ingredients with biological limit values:       CAS: 67-63-0 Isopropanol         BEI       40 mg/L       LD50 Intraperitoneal: urine         Time: end of shift at end of workweek       LD50: Acetone (background, nonspecific)         Additional information: The lists that were valid during the creation were used as be         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
TLV       Ceiling limit value: 2 ppm         Ingredients with biological limit values:         CAS: 67-63-0 Isopropanol         BEI       40 mg/L         LD50 Intraperitoneal: urine         Time: end of shift at end of workweek         LD50: Acctone (background, nonspecific)         Additional information: The lists that were valid during the creation were used as be         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
A4         Ingredients with biological limit values:         CAS: 67-63-0 Isopropanol         BEI       40 mg/L         LD50 Intraperitoneal: urine         Time: end of shift at end of workweek         LD50: Acetone (background, nonspecific)         Additional information: The lists that were valid during the creation were used as be         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
CAS: 67-63-0 Isopropanol         BEI       40 mg/L         LD50 Intraperitoneal: urine         Time: end of shift at end of workweek         LD50: Acetone (background, nonspecific)         Additional information: The lists that were valid during the creation were used as be         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
CAS: 67-63-0 Isopropanol         BEI       40 mg/L         LD50 Intraperitoneal: urine         Time: end of shift at end of workweek         LD50: Acetone (background, nonspecific)         Additional information: The lists that were valid during the creation were used as be         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
BEI       40 mg/L         LD50       Intraperitoneal: urine         Time: end of shift at end of workweek         LD50: Acetone (background, nonspecific)         Additional information: The lists that were valid during the creation were used as be         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Avoid contact with the eyes.         Avoid contact with the eyes and skin.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air.         Protection of hands:	
LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Acetone (background, nonspecific) Additional information: The lists that were valid during the creation were used as be Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air. Protection of hands:	
Time: end of shift at end of workweek LD50: Acetone (background, nonspecific) Additional information: The lists that were valid during the creation were used as be Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air. Protection of hands:	
Additional information: The lists that were valid during the creation were used as be Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air. Protection of hands:	
Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of int respiratory protective device that is independent of circulating air. Protection of hands:	
	nsive or longer exposure use
The glove material has to be impermeable and resistant to the product/ the substance Due to missing tests no recommendation to the glove material can be given for the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diff • Material of gloves The selection of the suitable gloves does not only depend on the material, but also on varies from manufacturer to manufacturer. As the product is a preparation of severa the glove material can not be calculated in advance and has therefore to be checked • Penetration time of glove material	roduct/ the preparation/ the sion and the degradation further marks of quality and substances, the resistance of

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)

(Contd. of page 5)

# Safety Data Sheet acc. to OSHA HCS

Printing date 07/17/2024

Reviewed on 07/17/2024

## Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13

· Eye protection:



\*

Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and che	mical properties	
General Information		
Appearance: Form:	Liquid	
Color:	Colorless	
Odor:	de l'alcool	
	l	
Odor threshold:	Not determined.	
<i>pH-value at 20 °C (68 °F):</i>	<2	
Change in condition		
Melting point/Melting range:	-89.5 °C (-129.1 °F)	
Boiling point/Boiling range:	82 °C (179.6 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Highly flammable.	
Auto igniting:	425 °C (797 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	2 Vol %	
Upper:	12 Vol %	
Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)	
Density at 20 °C (68 °F):	0.79111 g/cm <sup>3</sup> (6.60181 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity: Dynamic:	Not determined.	

Printing date 07/17/2024

Reviewed on 07/17/2024

### Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13

	(Contd. of page 6)
Not determined.	
98.8 %	
98.79 %	
781.6 g/l / 6.52 lb/gal	
0.0 %	
No further relevant information available.	
	98.8 % 98.79 % 781.6 g/l / 6.52 lb/gal 0.0 %

# **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- $\cdot$  on the eye:

Strong caustic effect.

- Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 67-63-0 Isopropanol

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

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

None of the ingredients is listed.

## **12 Ecological information**

· Toxicity

· Aquatic toxicity: No further relevant information available.

3

US

Printing date 07/17/2024

Reviewed on 07/17/2024

#### Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13

(Contd. of page 7)

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

• Other adverse effects No further 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.

· Uncleaned packagings:

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

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

· UN-Number · DOT, IMDG, IATA	UN1993	
· UN proper shipping name · DOT	Flammable liquids, n.o.s. (Isopropanol	
IMDG, IATA	) FLAMMABLE LIQUID, N.O.S. (Isopropanol )	
Transport hazard class(es)		
DOT		
RAMABLE LOUD		
· Class	3 Flammable liquids	
· Label	3	

Printing date 07/17/2024

Reviewed on 07/17/2024

### Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13

	(Contd. of pag
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code)	
EMS Number:	<i>F-E,<u>S-E</u></i>
Segregation groups	(SGG1) Acids
Stowage Category	В
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL
č	), <i>3</i> , <i>II</i>

#### \*

# 15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances)	· Section	355	(extremely	hazardous	substances
--	-----------	-----	------------	-----------	------------

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 67-63-0 Isopropanol

· TSCA (Toxic Substances Control Act):

Isopropanol

Hydrochloric Acid

• Hazardous Air Pollutants

CAS: 7647-01-0 Hydrochloric Acid

(Contd. on page 10)

ACTIVE

ACTIVE

<sup>-</sup> US

Printing date 07/17/2024

#### Reviewed on 07/17/2024

#### Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13

(Contd. of page 9)

A4

#### · Proposition 65

 $\cdot$  Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

 $\cdot$  Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 67-63-0 Isopropanol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

· Hazard-determining components of labeling: Isopropanol Hydrochloric Acid · Hazard statements Highly flammable liquid and vapor. Causes severe skin burns and eye damage. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 11)

<sup>-</sup> US

Printing date 07/17/2024

Reviewed on 07/17/2024

#### Trade name: Hydrochloric Acid 0.1N in IPA NIST Traceable, ASTM 4047-13

(Contd. of page 10)

Immediately call a poison center/doctor. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **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.

- · Department issuing SDS: Environment protection department.
- · Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2 07/17/2024: Reviewed SDS for accuracy. MH/STN 07/17/2024 / 1.2 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eve Damage 1: Serious eve damage/eve irritation – Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2 • \* Data compared to the previous version altered.