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

Revision: January 27, 2021

1 Identification
· Product identifier
 Trade name: <u>Hydrochloric Acid, 1.0N</u> Product code: DUHA6141-B
 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 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Dubois Chemicals Inc. 3630 East Kemper Rd, Cincinnati, OH 45241 (800) 438-2647
• Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
2 Hazard(s) identification Classification of the substance or mixture
Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals.
Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Irrit. 2 H315 Causes skin irritation.
Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Irrit. 2 H315 Causes skin irritation. Eye Dam. 1 H318 Causes serious eye damage.
Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Irrit. 2 H315 Causes skin irritation.
 Classification of the substance or mixture Met. Corr.1 H290 May be corrosive to metals. Skin Irrit. 2 H315 Causes skin irritation. Eye Dam. 1 H318 Causes serious eye damage. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms:

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

Revision: January 27, 2021

Trade name:	Hydrochloric Acid, 1.0N	
-------------	-------------------------	--

	(Cont'd. of page 1)
P280	Wear protective gloves and eye protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P	338 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.
P390	Absorb spillage to prevent material damage.
P406	Store in corrosive resistant container with a resistant inner liner.
[·] Other hazard	ds There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

7647-01-0 Hydrochloric acid	1-10%
 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335 	-
7732-18-5 Water	90-99%

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

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:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

- After eye contact:
- 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:
- Eye damage.

Irritant to skin and mucous membranes.

Gastric or intestinal disorders when ingested.

· Danger: No relevant information available.

· Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

(Cont'd. on page 3)

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

Revision: January 27, 2021

Trade name: Hydrochloric Acid, 1.0N

(Cont'd. of page 2)

• Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- · Special hazards arising from the substance or mixture
- 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.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

Environmental precautions

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

Methods and material for containment and cleaning up

Use limestone to neutralize and/or absorb spill.

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.

Information about protection against explosions and fires: No special measures required.

[•] Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

• Further information about storage conditions: Keep containers tightly sealed.

Specific end use(s) No relevant information available.

(Cont'd. on page 4)

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

Revision: January 27, 2021

Trade name: Hydrochloric Acid, 1.0N

(Cont'd. of page 3)

8 Exposure co	ntrols/personal protection
	ith limit values that require monitoring at the workplace: constituent is the only constituent of the product which has a PEL, TLV or other
7647-01-0 Hydr	ochloric acid
PEL (USA)	Ceiling limit value: 7 mg/m³, 5 ppm
REL (USA)	Ceiling limit value: 7 mg/m³, 5 ppm
TLV (USA)	Ceiling limit value: 2.98 mg/m³, 2 ppm
EL (Canada)	Ceiling limit value: 2 ppm
EV (Canada)	Ceiling limit value: 2 ppm
LMPE (Mexico)	Ceiling limit value: 2 ppm A4
Breathing equi	ontrols: Provide adequate ventilation. pment: Not required under normal conditions of use. ands: we gloves
	BR s NR bber (Viton) y the components in the glove materials is possible. e gloves made of the following materials: Chloroprene rubber, CR
Safety g	glasses
 Body protection Limitation and 	national guidelines concerning the use of protective eyewear. n: Acid resistant protective clothing. d supervision of exposure into the environment rmation available.

(Cont'd. on page 5)

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

Revision: January 27, 2021

Trade name: Hydrochloric Acid, 1.0N

(Cont'd. of page 4)

Information on basic physical and chemical properties Appearance: Form: Liquid Color: Colorless Odor: Acrid Odor threshold: Not determined. pH-value at 20 °C (68 °F): <1.0 Melting point/Melting range: Not determined. Boiling point/Boiling range: Not determined. Flash point: The product is not flammable. * Flash point: The product is not flammable. * Flammability (solid, gaseous): Not determined. • Decomposition temperature: Not determined. • Decomposition temperature: Not determined. • Danger of explosion: Product does not present an explosion hazard. • Explosion limits Lower: Lower: Not determined. Upper: Not determined. • Oxidizing properties: Not determined. • Vapor pressure: Not determined. • Vapor gressure: Not determined. • Vapor density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) Vapor density: Not determined. Evaporation rate: Not determined. • Solub	9 Physical and chemical propert	ties
Appearance: Liquid Form: Color: Color: Colorless Odor threshold: Not determined. PH-value at 20 °C (68 °F): <1.0 Melting point/Melting range: Not determined. Boiling point/Boiling range: Not determined. Flash point: The product is not flammable. Flammability (solid, gaseous): Not applicable. Auto-ignition temperature: Not determined. Decomposition temperature: Not determined. Out over: Not determined. Lower: Not determined. Upper: Not determined. Oxidizing properties: Not determined. Vapor pressure: Not determined. Vapor density: Not determined. Vapor density: Not determined. Evaporation rate: Not determined. Solubility in / Miscibility with Water: Water: Fully miscible. Partition coefficient (n-octanol/water): Not determined. Viscosity Not determined. Viscosity Not determined. Not determined. Not determined. <		
Form: Liquid Color: Colorless Odor: Acrid Odor threshold: Not determined. PH-value at 20 °C (68 °F): <1.0 Melting point/Melting range: Not determined. Boiling point/Boiling range: Not determined. Flash point: The product is not flammable. Flammability (solid, gaseous): Not applicable. Auto-ignition temperature: Not determined. Decomposition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. Explosion limits Lower: Lower: Not determined. Upper: Not determined. Oxidizing properties: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor density: Not determined. Vapor density: Not determined. Solubility in / Miscibility with Water: Water: Fully miscible. Partition coefficient (n-octanol/water): Not determined. Viscosity Dynamic: Not determined.		u chemical properties
Color: Colorless Odor: Acrid Odor threshold: Not determined. PH-value at 20 °C (68 °F): <1.0 Melting point/Beiling range: Not determined. Boiling point/Boiling range: Not determined. 'Flash point: The product is not flammable. 'Flash point: The product is not flammable. 'Auto-ignition temperature: Not determined. Decomposition temperature: Not determined. 'Danger of explosion: Product does not present an explosion hazard. 'Explosion limits Lower: Lower: Not determined. 'Dyper: Not determined. 'Oxidizing properties: Not determined. 'Vapor pressure: Not determined. 'Vapor density: Not determined. 'Solubility in / Miscibility with Water: Water: Fully miscible. 'Partition coefficient (n-octanol/water): Not determined. 'Viscosity Dynamic: Dynamic: Not determined.	• •	Liquid
• Odor threshold: Not determined. • pH-value at 20 °C (68 °F): <1.0 • Melting point/Boiling range: Not determined. • Boiling point/Boiling range: Not determined. • Flash point: The product is not flammable. • Flammability (solid, gaseous): Not applicable. • Auto-ignition temperature: Not determined. • Decomposition temperature: Not determined. • Danger of explosion: Product does not present an explosion hazard. • Explosion limits Lower: Lower: Not determined. • Oxidizing properties: Not determined. • Vapor pressure: Not determined. • Vapor density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) • Vapor density: Not determined. • Solubility in / Miscibility with Water: • Solubility in / Miscibility with Fully miscible. • Partition coefficient (n-octanol/water): Not determined. •Viscosity Dynamic: Not determined. • Viscosity Dynamic: Dynamic: Not determined.		
PH-value at 20 °C (68 °F): <1.0 Melting point/Boiling range: Not determined. Boiling point/Boiling range: Not determined. Flash point: The product is not flammable. Flammability (solid, gaseous): Not applicable. Auto-ignition temperature: Not determined. Decomposition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. Explosion limits Lower: Lower: Not determined. Upper: Not determined. Oxidizing properties: Not determined. Vapor pressure: Not determined. Vapor density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) Vapor density: Not determined. Evaporation rate: Not determined. Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Not determined. 'Viscosity Dynamic: Dynamic: Not determined.	· Odor:	Acrid
Melting point/Melting range: Not determined. Boiling point/Boiling range: Not determined. Flash point: The product is not flammable. Flammability (solid, gaseous): Not applicable. Auto-ignition temperature: Not determined. Decomposition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. Explosion limits Lower: Lower: Not determined. Upper: Not determined. Oxidizing properties: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor density: Not determined. Evaporation rate: Not determined. Solubility in / Miscibility with Water: Viscosity Dynamic: Dynamic: Not determined. Viscosity Dynamic: Dynamic: Not determined.	· Odor threshold:	Not determined.
Boiling point/Boiling range: Not determined. Flash point: The product is not flammable. Flammability (solid, gaseous): Not applicable. Auto-ignition temperature: Not determined. Decomposition temperature: Not determined. Danger of explosion: Product does not present an explosion hazard. Explosion limits Lower: Lower: Not determined. Upper: Not determined. Oxidizing properties: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor density: Not determined. Evaporation rate: Not determined. Solubility in / Miscibility with Water: Viscosity Dynamic: Not determined. Viscosity	· pH-value at 20 °C (68 °F):	<1.0
• Flash point: The product is not flammable. • Flammability (solid, gaseous): Not applicable. • Auto-ignition temperature: Not determined. • Decomposition temperature: Not determined. • Danger of explosion: Product does not present an explosion hazard. • Explosion limits Lower: Lower: Not determined. • Oxidizing properties: Not determined. • Oxidizing properties: Not determined. • Vapor pressure: Not determined. • Density: Relative density at 20 °C (68 °F): Relative density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) • Vapor density: Not determined. • Solubility in / Miscibility with Water: • Partition coefficient (n-octanol/water): Not determined. • Viscosity Dynamic: Dynamic: Not determined. • Viscosity Dynamic: Dynamic: Not determined.		Not determined.
• Flammability (solid, gaseous): Not applicable. • Auto-ignition temperature: Not determined. • Decomposition temperature: Not determined. • Danger of explosion: Product does not present an explosion hazard. • Explosion limits Lower: Lower: Not determined. Upper: Not determined. • Oxidizing properties: Not determined. • Vapor pressure: Not determined. • Vapor pressure: Not determined. • Vapor density: Not determined. • Zeaporation rate: Not determined. • Solubility in / Miscibility with Water: • Viscosity Fully miscible. • Partition coefficient (n-octanol/water): Not determined. • Viscosity	 Boiling point/Boiling range: 	Not determined.
· Auto-ignition temperature: Not determined. · Decomposition temperature: Not determined. · Danger of explosion: Product does not present an explosion hazard. · Explosion limits Lower: Lower: Not determined. Upper: Not determined. · Oxidizing properties: Not determined. · Vapor pressure: Not determined. · Vapor density: Not determined. · Vapor density: Not determined. · Vapor density: Not determined. · Solubility in / Miscibility with Not determined. · Solubility in / Miscibility with Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity Dynamic: Not determined. · Viscosity Not determined.	· Flash point:	The product is not flammable.
• Decomposition temperature: Not determined. • Danger of explosion: Product does not present an explosion hazard. • Explosion limits Lower: Lower: Not determined. Upper: Not determined. • Oxidizing properties: Not determined. • Vapor pressure: Not determined. • Vapor pressure: Not determined. • Vapor density: 1.0 g/cm³ (8.35 lbs/gal) Vapor density: Not determined. Evaporation rate: Not determined. • Solubility in / Miscibility with Vater: • Partition coefficient (n-octanol/water): Not determined. • Viscosity Dynamic: Not determined. • Viscosity Not determined. • Viscosity Not determined.	· Flammability (solid, gaseous):	Not applicable.
• Danger of explosion: Product does not present an explosion hazard. • Explosion limits Lower: Not determined. Upper: Not determined. • Oxidizing properties: Not determined. • Vapor pressure: Not determined. • Density: Relative density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) • Vapor density: Not determined. Evaporation rate: Not determined. • Solubility in / Miscibility with Water: • Partition coefficient (n-octanol/water): Not determined. • Viscosity Dynamic: Dynamic: Not determined.	· Auto-ignition temperature:	Not determined.
• Explosion limits Not determined. Lower: Not determined. Upper: Not determined. • Oxidizing properties: Not determined. • Vapor pressure: Not determined. • Density: Not determined. • Density: Not determined. • Density: Not determined. • Density: Not determined. • Evapor density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) • Vapor density: Not determined. Evaporation rate: Not determined. • Solubility in / Miscibility with Water: • Partition coefficient (n-octanol/water): Not determined. • Viscosity Dynamic: Dynamic: Not determined. Kinematic: Not determined.	· Decomposition temperature:	Not determined.
Lower: Not determined. Upper: Not determined. Oxidizing properties: Not determined. 'Vapor pressure: Not determined. 'Density: Relative density at 20 °C (68 °F): Relative density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) Vapor density: Not determined. Evaporation rate: Not determined. Solubility in / Miscibility with Water: Water: Fully miscible. 'Partition coefficient (n-octanol/water): Not determined. Viscosity Dynamic: Dynamic: Not determined. Kinematic: Not determined.	 Danger of explosion: 	Product does not present an explosion hazard.
Upper: Not determined. Oxidizing properties: Not determined. 'Vapor pressure: Not determined. 'Density: Relative density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) 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. Kinematic: Not determined.	· Explosion limits	
· Oxidizing properties: Not determined. · Vapor pressure: Not determined. · Density: Relative density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) · Vapor density: Not determined. Evaporation rate: Not determined. · Solubility in / Miscibility with Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity Not determined. · Viscosity Not determined. · Viscosity Not determined. · Not determined. Not determined.	Lower:	Not determined.
· Vapor pressure: Not determined. · Density: Relative density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) Vapor density: Not determined. Evaporation rate: Not determined. · Solubility in / Miscibility with Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity Not determined. · Vise Not determined.		
· Density: Relative density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) Vapor density: Not determined. Evaporation rate: Not determined. · Solubility in / Miscibility with Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscosity Not determined. · Viscosity Not determined. · Viscosity Not determined. · Not determined. Not determined.	· Oxidizing properties:	Not determined.
Relative density at 20 °C (68 °F): 1.0 g/cm³ (8.35 lbs/gal) Vapor density: Not determined. Evaporation rate: Not determined. * Solubility in / Miscibility with Fully miscible. * Partition coefficient (n-octanol/water): Not determined. * Viscosity Not determined. Mot determined. * Viscosity Dynamic: Not determined. Kinematic: Not determined.	· Vapor pressure:	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. Kinematic: Not determined.		
Evaporation rate: Not determined. Solubility in / Miscibility with Water: Fully miscible. Partition coefficient (n-octanol/water): Not determined. Viscosity Viscosity Not determined. Kinematic: Not determined.		
Solubility in / Miscibility with Water: Fully miscible. Partition coefficient (n-octanol/water): Not determined. Viscosity Dynamic: Not determined. Kinematic: Not determined.		
Water: Fully miscible. Partition coefficient (n-octanol/water): Not determined. Viscosity Dynamic: Not determined. Kinematic: Not determined.	Evaporation rate:	Not determined.
• Partition coefficient (n-octanol/water): Not determined. • Viscosity Dynamic: Not determined. Kinematic: Not determined.		
· Viscosity Dynamic: Not determined. Kinematic: Not determined.	Water:	Fully miscible.
Dynamic:Not determined.Kinematic:Not determined.	· Partition coefficient (n-octanol/water	r): Not determined.
Kinematic: Not determined.		
• Other information No relevant information available		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** Reacts with alkali (lyes).

Corrosive action on metals.

(Cont'd. on page 6)

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

Revision: January 27, 2021

	Trade nam	e: Hydrochloric A	Acid, 1.0N
--	-----------	-------------------	------------

(Cont'd. of page 5)

3

Reacts with metals forming hydrogen. Toxic fumes may be released if heated above the decomposition point. • **Conditions to avoid** No relevant information available. • **Incompatible materials** No relevant information available.

Hazardous decomposition products

Hydrogen

Under fire conditions only: Chlorine compounds

11 Toxicological information

[·] Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification: None.

· Primary irritant effect:

- · On the skin: Irritant to skin and mucous membranes.
- · On the eye: Causes serious eye damage.
- Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

7647-01-0 Hydrochloric acid

• NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

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

Irritating to skin.

Causes serious eye damage.

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

(Cont'd. on page 7)

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

Revision: January 27, 2021

Trade name: Hydrochloric Acid, 1.0N

(Cont'd. of page 6)

• Mobility in soil: No relevant information available.

[•] Additional ecological information

· General notes:

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

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.

UN-Number	
DOT, ADR/RID/ADN, IMDG, IATA	UN1789
UN proper shipping name	
DOT	Hydrochloric acid
ADR/RID/ADN, IMDG, IATA	HYDROCHLORIC ACID
Transport hazard class(es)	
DOT	
CORRECT:	
Class	8
Label	8
ADR/RID/ADN	
Class	8 (C1)
Label	8

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

Revision: January 27, 2021

rade name: Hydrochloric Acid, 1.0N	
	(Cont'd. of page
· IMDG, IATA	
Fa	
· Class	0
Label	8 8
Packing group	
· DOT, ADR/RID/ADN, IMDG, IATA	III
· Environmental hazards	Not applicable.
• Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
· Segregation groups	Acids
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Safety, health and environmental regula	itions/legislation specific for the substance
5 Regulatory information • Safety, health and environmental regula mixture • United States (USA) • SARA	tions/legislation specific for the substance
 Safety, health and environmental regula mixture United States (USA) 	
 Safety, health and environmental regula mixture United States (USA) SARA 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances) 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 7732-18-5 Water Proposition 65 (California) 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause developmental tox 	
 Safety, health and environmental regular mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: None of the ingredients are listed. 	
 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. Chemicals known to cause developmental tox 	s):
 Safety, health and environmental regular mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. 	s): icity for females: icity for males:
 Safety, health and environmental regular mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. 	s): icity for females: icity for males:
 Safety, health and environmental regular mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. 	s): icity for females: icity for males:
 Safety, health and environmental regular mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 7647-01-0 Hydrochloric acid TSCA (Toxic Substances Control Act) 7647-01-0 Hydrochloric acid 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. Chemicals known to cause developmental tox None of the ingredients are listed. 	s): icity for females: icity for males:

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

Revision: January 27, 2021

Trade name: Hydrochloric Acid, 1.0N

(Cont'd. of page 8)

3

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

7647-01-0 Hydrochloric acid

Canadian Domestic Substances List (DSL):

None of the ingredients are 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 OSHA: Occupational Safety & Health Administration 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 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