

Revision date: 06/08/2015

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation:	Hydrochloric Acid 0.6N
Product No.:	TXBDH3021OST TXBDH3021-20L
Other means of identification:	Aqueous hydrogen chloride, Muriatic acid

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Manufacturing and Laboratory use

1.3. Details of the supplier of the safety data sheet

Company VWR International, LLC
Radnor Corporate Center
100 Matsonford Road
Radnor, PA 19087-8660
Telephone 610.386.1700

1.4. Emergency Telephone number

CHEMTREC 800.424.9300
CANUTEC 613.996.6666

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

For the full text of the H-Statement(s) and R-phrase(s) mentioned in this Section, see Section 16.

Hazard classes and hazard categories	Hazard statements
Skin corrosion; Category 2	Causes skin irritation.
Serious eye damage; Category 1	Causes serious eye damage.

2.2. GHS Label elements, including precautionary statements

Pictograms



Signal word Danger

Hazard statements	
H315	Causes skin irritation.
H318	Causes serious eye damage.

Precautionary statements	
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
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/physician.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local regulations.

2.3. WHIMS Classification

Class E: Corrosive material

Class D-2A: Poisonous and infectious material- Other effects- Very toxic

2.4. Hazards not otherwise classified (HNOC) or not covered by GHS or WHIMS

Not Available

SECTION 3: Composition / information on ingredients

3.1. Hazard components

Chemical name	Formula	Molecular weight	CAS#	Weight%
Hydrochloric Acid	HCl	36.46 g/mol	7647-01-0	2-3
Water	H ₂ O	18.00 g/mol	7732-18-5	Balance

SECTION 4: First aid measures

4.1. General information

In case of inhalation

Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respirations. Get medical attention if irritation persists.

In case of skin contact

Flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if irritation persists.

In case of eye contact

Immediately rinse with plenty of water for at least 15 minutes and seek medical attention if irritation persists.

In case of ingestion

Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if irritation persists.

4.2. Most important symptoms and effects, both acute and delayed

May cause redness or irritation of the skin. Contact to eyes may cause burns, redness, or severe irritation. Inhalation may cause coughing and breathing difficulty. Ingestion may cause nausea, vomiting, and irritation to gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

Not Available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use appropriate media for adjacent fire. Cool unopened containers with water.

5.2. Special hazards arising from the substance or mixture

Hydrogen chloride gas

5.3. Special protective equipment for firefighters

Not Available

5.4. Hazardous combustion products

Not Available

5.5. Advice for firefighters

Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

5.6. Additional information

Not Available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8 for recommendations on the use of personal protective equipment.

6.2. Environmental precautions

Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

6.3. Methods and material for containment and cleaning up

Neutralize spill with sodium bicarbonate or soda lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

6.4. Additional information

Not Available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool, dry, well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

7.3. Specific end use(s)

Not Available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Limit value type & Country of Origin	Exposure Limit value	Source
Hydrochloric Acid	2 ppm 2.98 mg/m ³	CEIL	ACGIH
	5 ppm 7 mg/m ³	CEIL	OSHA

	5 ppm 7 mg/m ³	CEIL	NIOSH
	50 ppm	IDLH	OSHA

8.2. Exposure controls

Appropriate engineering controls

Showers
Eye wash stations
Ventilation system

Personal protection equipment

Eye/face protection

Safety glasses or goggles with face shield if splashing is likely to occur.

Skin protection

Nitrile or rubber gloves and full body protection.

Respiratory protection

Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

- a) Appearance:
 - Physical state Liquid
 - Color Clear, colorless
- b) Odor Not Available
- c) Odor Threshold Not Available
- d) pH Not Available
- e) Melting point/
freezing point Not Available
- f) Initial boiling point
and boiling range Not Available
- g) Flash point Not Available
- h) Evaporation rate Not Available
- i) Flammability (solid, gas) Not Available
- j) Upper/lower flammability
or explosive limits Not Available
- k) Vapor pressure Not Available
- l) Vapor density Not Available

m) Relative density	1.0096
n) Solubilities	Not Available
o) Partition coefficient (n-Octanol/Water)	Not Available
p) Auto-ignition temperature	Not Available
q) Decomposition temperature	
r) Viscosity	Not Available
s) Explosive properties	Not Available
t) Oxidizing properties	Not Available

9.2. Other information

Not Available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not Available

10.2. Chemical stability

Stable under normal storage conditions

10.3. Possibility of hazardous reactions

Not Available

10.4. Conditions to avoid

Not Available

10.5. Incompatible materials

Metals, oxidizing agents, organic materials, alkalis, water

10.6. Hazardous decomposition products

Hydrogen chloride gas

SECTION 11: Toxicology

11.1. Information on toxicological effects

Acute toxicity

Oral LD₅₀

Inhalation LC₅₀

Dermal LD₅₀

Other information on acute toxicity

Skin corrosion/irritation

Not Available

Serious eye damage/eye irritation

Not Available

Respiratory or skin sensitization

Not Available

Germ cell mutagenicity

Not Available

Carcinogenicity

Not Available

Reproductive toxicity

Not Available

Specific target organ toxicity-single exposure

Not Available

Specific target organ toxicity-repeated exposure

Not Available

Aspiration hazard

Not Available

Additional information

Not Available

SECTION 12: Ecological information

12.1. Ecotoxicity

Not Available

12.2. Persistence and degradability

Not Available

12.3. Bioaccumulative potential

Not Available

12.4. Mobility in soil

Not Available

12.5. Results of PBT and vPvB assessment

Not Available

12.6. Other adverse effects

Not Available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

Land Transport DOT (U.S.)

UN Number 1789

Proper Shipping name Hydrochloric acid

Transport Hazard Classes

Class 8

Hazard Label(s) 8

Packing Group III

Environmental hazard(s)

Special precautions for user

Sea Transport IMDG

UN Number 1789

Proper Shipping name Hydrochloric acid

Transport Hazard Classes

Class 8

Hazard Label(s) 8

EMS- No. F-A, S-B

Packing Group III

Environmental hazard(s)

Segregation Group

Special precautions for user

Air Transport IATA

UN Number 1789
Proper Shipping name Hydrochloric acid
Transport Hazard Classes
Class 8
Hazard Label(s) 8
Packing Group III
Environmental hazard(s)
Special precautions for user

SECTION 15: Regulatory information

OSHA Hazards

Corrosive

SARA 302 Extremely Hazardous Substances

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 (TRI reporting)

Hydrochloric Acid

SARA 311/312 Hazardous Chemicals

Acute Health Hazard

Massachusetts Right-To-Know Substance List

Hydrochloric Acid

Pennsylvania Right-To-Know Hazardous substances

Hydrochloric Acid
Water

New Jersey Worker and Community Right-To-Know Components

Hydrochloric Acid
Water

California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Inventory status:
Canada DSL Inventory List: Listed
US TSCA Inventory List: Listed
EINECS, ELINCS or NLP: 231-595-7

SECTION 16: Other information

Full text of H-Statement(s) and R-phrases(s)

H315
H318

Canadian Carcinogenicity hazard class
PHNOC hazard class
HHNOC hazard class
Biohazardous Infectious Materials hazard class

NFPA Rating:

Health: 2
Flammability: 0
Reactivity: 0
Special Hazard:



DISCLAIMER

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.