



SAFETY DATA SHEET

Preparation Date: No data available Revision Date: 06/18/2015 Revision Number: G1

Product identifier

Product code: H-120

Product Name: HYDROCHLORIC ACID, 0.1 N, AQUEOUS SOLUTION

Other means of identification

Synonyms: Hydrochloric Acid, 0.1 N Aqueous Solution

Mixture

RTECS # Not available CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available. Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Label elements

Product code: H-120

Product name: HYDROCHLORIC ACID, 0.1 N, AQUEOUS SOLUTION

Warning

Hazard statements

Causes skin irritation Causes serious eye irritation



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves

Wear eye/face protection

Precautionary Statements - Response

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Water 7732-18-5	7732-18-5	99.636	*
Hydrochloric Acid 7647-01-0	7647-01-0	0.364	*

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

Product code: H-120 Product name: HYDROCHLORIC 2 / 12
ACID, 0.1 N, AQUEOUS SOLUTION

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: No information available.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes

and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all

sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. In case of large spill, dike if needed. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up

Neutralize the residue with a dilute solution of sodium carbonate. Absorb spill with

inert material (e.g. vermiculite, dry sand or earth). Use appropriate tools to put the

spilled material in a suitable chemical waste disposal container.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Product code: H-120 Product name: HYDROCHLORIC 3 / 12
ACID. 0.1 N. AQUEOUS SOLUTION

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Water	None	None	None	None
7732-18-5				
Hydrochloric Acid	5 ppm Ceiling	5 ppm Ceiling	2 ppm Ceiling	Not determined
7647-01-0	7 mg/m ³ Ceiling	7 mg/m³ Ceiling	_	

Canada

	Components	Alberta	British Columbia	Ontario	Quebec
I	Water	None	None	None	None
	7732-18-5				
ſ	Hydrochloric Acid	2 ppm Ceiling	2 ppm Ceiling	2 ppm Ceiling	5 ppm Ceiling
	7647-01-0	3 mg/m ³ Ceiling	-		7.5 mg/m ³ Ceiling

Australia and Mexico

Components	Australia	Mexico
Water	None	None
7732-18-5		
Hydrochloric Acid	5 ppm Peak	5 ppm Ceiling
7647-01-0	7.5 mg/m³Peak	7 mg/m³ Ceiling

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles Safety glasses with side-shields

Skin and body protection: Chemical resistant apron. Gloves. Long sleeved clothing.

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

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ACID. 0.1 N. AQUEOUS SOLUTION

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Liquid No information available Clear. Colorless.

Odor: Taste Molecular/Formula weight:

No information available
No information available
No information available

Formula: Flammability: Flash point (°C):

Flashpoint (°C/°F): Flash Point Tested according to: Lower Explosion Limit (%):

No information available. Not available No information available

Upper Explosion Limit (%): Autoignition Temperature (°C/°F): pH:

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

No information available The lowest known value is 100°C/212°F No information available

(water)

Bulk density: Specific gravity: Vapor pressure @ 20°C (kPa):

No information available

The only known value is 1 (water)

The highest known value is 2.3 (water)

Density (g/cm3): Evaporation rate: Vapor density:

No information available No information available The highest known value is 0.62

(water)

VOC content (g/L):Odor threshold (ppm):Partition coefficientNo information availableNo information available(n-octanol/water):

No information available (n-octanol/water):

Viscosity: Miscibility: Solubility:

Soluble in hot water Soluble in diethyl ether

10. STABILITY AND REACTIVITY

Reactivity

Reactive with alkalis

Reacts violently (moderate reaction with heat of evolution) with water especially when water is added to the product. Isolate hydrogen chloride from heat, direct, alkalies (reacts vigorously), organic materials, and oxidizers (especially nitric acid and chlorates), amines, copper and alloys (e.g. brass), hydroxides, zinc (galvanized materials).

Hydrogen chloride causes aldehydes and epoxides to violently polymerize.

It reacts with oxidizers releasing chlorine gas. (Hydrogen chloride)

Chemical stability

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Alkalis.

Hazardous decomposition products: No information available

Other Information

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ACID, 0.1 N, AQUEOUS SOLUTION

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Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Eyes. Skin.

Acute Toxicity

Component Information

Water - 7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Hydrochloric Acid - 7647-01-0

LD50/oral/rat = 238 - 277 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit =>5010 mg/kg Dermal LD50Rabbit

LC50/inhalation/rat = 3124 ppm Inhalation LC50 Rat 1 h

LC50/inhalation/mouse = 1108 ppm 1 h

Other LD50 or LC50information = 900 mg/kg Oral LD50 Rabbit

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

Product code: H-120

VALUE-Vapor = No information available

VALUE - Gas = No information available

Product name: HYDROCHLORIC ACID, 0.1 N. AQUEOUS SOLUTION

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause digestive (gastointestinal) tract irritation.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

Mutagenic Effects: May affect genetic material

Carcinogenic effects: Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Water	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
	A4 Not Classifiable as a Human Carcinogen	Monograph 54 [1992]	No information	No information	No information	No information

Reproductive toxicity

No data is available

Reproductive Effects:

Developmental Effects:

Teratogenic Effects:

No information available
No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

Product code: H-120 **Product name:** HYDROCHLORIC ACID, 0.1 N, AQUEOUS SOLUTION

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Water	None	None	None	None
Hydrochloric Acid	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available
No information available

Packing Group: None

ERG No: No information available

Marine Pollutant No data available DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

Product code: H-120

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Description:
No information available

Product name: HYDROCHLORIC ACID, 0.1 N, AQUEOUS SOLUTION 8 / 12

14. TRANSPORT INFORMATION

Marine Pollutant
MFAG:
No information available
No information available
No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Water	Present	Present KE- 35400	Present	Not present	Present	Present	Present 231-791-2
Hydrochloric Acid	Present T	Present KE- 20189	Present	Present (1)- 215	Present	Present	Present 231-595-7

U.S. Regulations

Hydrochloric Acid

Massachusetts RTK: Present Massachusetts EHS: Present

New Jersey RTK Hazardous Substance List: 1012

New Jersey (EHS) List: 1012 500 lb TPQ

2909 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

New Jersey TCPA - EHS: 15000lbTQ

5600lbTQ 2000lbTQ

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present Minnesota - Hazardous Substance List: Present

New York Release Reporting - List of Hazardous Substances:

5000 lb RQ 100 lb RQ

Hydrochloric Acid

Louisana Reportable Quantity List for Pollutants: 5000lbfinal RQAs listed in 40 CFR 117.3 Table 117.3 and 40 CFR 302.4 Table 302.4 2270kgfinal RQAs listed in 40 CFR 117.3 Table 117.3 and 40 CFR 302.4 Table 302.4

5000lbRQAs listed in Louisiana Administrative Code, Title 33, Part 1, Subpart 2, Chapter 39, Subchapter E. Applies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period

1000lbRQAs listed in Louisiana Administrative Code, Title 33, Part 1, Subpart 2, Chapter 39, Subchapter E. Applies to unauthorized emissions based on total mass emitted into the atmosphere

California Directors List of Hazardous Substances: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 182.1057

FDA - 21 CFR - Total Food Additives 133.129 155.191 155.194 160.105 160.185 172.560 172.892 182.1057

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Water	Not Listed	Not Listed		Not Listed
Hydrochloric Acid	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
Water	None	None	None	None	None
Hydrochloric Acid	5000 lb final RQ	500 lb TPQ	None	None	1.0 % de minimis
	2270 kg final RQ				concentration

U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Water	Not Applicable	Not Applicable
Hydrochloric Acid	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

Non-controlled

Water

Uncontrolled product according to WHMIS classification criteria

Hydrochloric Acid

A D1A E

E 0.036% in aqueous solution, 0.36% in aqueous solution, 3.6% in aqueous solution

D1B E 28% in aqueous solution

D1A E 31.45% in aqueous solution, 35.2% in aqueous solution

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Hydrochloric Acid	1 %

Inventory

Product code: H-120 Product name: HYDROCHLORIC 10 / 12 ACID, 0.1 N, AQUEOUS SOLUTION

Components	Canada (DSL)	Canada (NDSL)
Water	Present	Not Listed
Hydrochloric Acid	Present	Not Listed

Components		CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Water	Not listed	Not listed
Hydrochloric Acid	Not listed	Not listed

EU Classification

R-phrase(s)

not determined (not applicable) R36/38 - Irritating to eyes and skin.

S -phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37 - Wear suitable gloves.

Components	Classification	Concentration Limits:	Safety Phrases
Water		No information	
Hydrochloric Acid	T; R23 C; R35		S1/2 S9 S26 S36/37/39 S45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None.

16. OTHER INFORMATION

Product code: H-120

16. OTHER INFORMATION

Product code: H-120

Revision Date: 06/18/2015 **Prepared by:** Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

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End of Safety Data Sheet