

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: Hydrochloric Acid 0.2N

OTHER MEANS OF IDENTIFICATION: None

RECOMMENDED USE: Laboratory reagent

RESTRICTIONS ON USE: None SUPPLIER IDENTIFIER: Di-Corp

8750-53 Ave

Edmonton, AB T6E 5G2

780-440-4923

EMERGENCY PHONE NUMBER: 780-468-4064 (24 hr)

EMERGENCY TRANSPORT NUMBER: 1-888-CANUTEC (226-8832), 613-996-6666 or *666 on a cellular phone

SECTION 2: HAZARD IDENTIFICATION

Corrosive to metals - Category 1

CLASSIFICATION: Skin Corrosion / Irritation – Category 2

Serious Eye Damage / Eye Irritation – Category 2

LABEL SYMBOLS:



SIGNAL WORD: WARNING

HAZARD STATEMENTS:

May be corrosive to metals.

Causes skin and eye irritation.

PRECAUTIONARY STATEMENTS: Prevention

Keep only in original container.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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.

Absorb spillage to prevent material damage.

Storage

Store in corrosion resistant container.

OTHER HAZARDS: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMECAS NUMBERCONCENTRATIONHydrochloric acid7647-01-01.0 - 2.0% (v/v)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Immediately flush with copious amounts of running water while removing contaminated

clothing. Continue flushing until irritation subsides. If irritation persists, or burns develop,

obtain medical attention.

© Di-Corp 2018 Page 1 of 4



EYE CONTACT: Immediately flush with gently flowing warm water for 15 minutes holding eyelids open.

Remove contact lens, if present. Neutral saline may be used as soon as it is available.

Obtain medical attention when flushing period is complete and no further irritation is felt.

Do not induce vomiting. If victim is conscious and alert, rinse mouth with water. Obtain

immediate medical attention. Never give anything by mouth if patient is unconscious,

rapidly losing consciousness or convulsing.

INHALATION: Move to fresh air. Apply oxygen or artificial respiration if required. Obtain immediate

medical attention.

MOST IMPORTANT SYMPTOMS / EFFECTS:

Product is a corrosive material. May cause eye and skin irritation.

IMMEDIATE MEDICAL ATTENTION /

Treat symptomatically.

SPECIAL TREATMENT:

INGESTION:

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use media suitable for surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC FIRE HAZARDS: May give off toxic hydrogen chloride fumes in a fire.

HAZARDOUS COMBUSTION PRODUCTS: Hydrogen chloride.

SPECIAL PROTECTIVE EQUIPMENT & Full protective equipment and self-contained breathing apparatus required for fire-fighting

PRECAUTIONS: personnel. Remove containers from fire area, or cool with water spray, if possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIMENT AND EMERGENCY PROCEDURES

Always use suggested or required safety equipment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Cover spill with soda ash or lime; use caution to avoid splashing. Soak up liquid with absorbent material (moist towels for small lab spills) and place in suitable containers approved for material being disposed. Wash spill site thoroughly after material pick up is complete.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

This is a dilute hydrochloric acid solution, but should still be handled with care. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Do not wear contact lenses when handling; hydrogen chloride fumes can collect on the eye behind the contact lens causing severe burns. Avoid ingestion. Wash thoroughly after handling. Launder contaminated clothing before reuse.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry place away from incompatible materials. Keep containers tightly closed when not in use. Empty containers contain residual hazardous material, and must be handled and stored as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: Hydrochloric acid: ACGIH TWA = 2 ppm ceiling

ENGINEERING CONTROLS: General mechanical sufficient for normal use. Use process enclosure, local exhaust

ventilation or other engineering controls if vapours or mists are generated during use.

PERSONAL PROTECTIVE MEASURES

RESPIRATORY PROTECTION: None required for this solution. Use NIOSH approved respirator with acid gas/mist

cartridges if vapours or mists are generated.

PROTECTIVE GLOVES: Suggest rubber or latex gloves be worn.

EYE PROTECTION: Suggest chemical splash goggles. Do not wear contact lenses when working with corrosives.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Suggest the use of a chemical apron and/or chemical resistant clothing. Ensure eye-wash

station and emergency shower are available.

© Di-Corp 2018 Page 2 of 4



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear colourless liquid

ODOUR: Mild HCl odour
ODOUR THRESHOLD: Not determined

pH: 0.7
MELTING POINT / FREEZING POINT: 0°C
BOILING POINT / RANGE: 100°C

FLASH POINT:

EVAPORATION RATE:

Not available

FLAMMABILITY:

FLAMMABILITY / EXPLOSIVE LIMITS:

VAPOUR PRESSURE:

VAPOUR DENSITY:

Not available

Not available

RELATIVE DENSITY: 1.0

SOLUBILITY: Miscible in water
PARTION COEFFICIENT: Not available
AUTO-IGNITION TEMPERATURE: Not applicable
DECOMPOSITION TEMPERATURE: Not available
VISCOSITY: Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No information available

CHEMICAL STABILITY: Stable under normal conditions
POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur

CONDITIONS TO AVOID: Avoid incompatible materials. Avoid excess heat.

INCOMPATIBLE MATERIALS: Metals. Reducing agents. Bases. Water reactive materials. Aldehydes. HAZARDOUS DECOMPOSITION PRODUCTS: Reacts with metals to produce hydrogen. Hydrogen chloride gas.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: LD50 (oral) >2000 mg/kg (ATE calculated)

LD50 (dermal) > 2000 mg/kg (ATE calculated) LC50 (inhalation) > 20 mg/L (ATE calculated)

COMPONENT TOXICITY

 COMPONENT
 LD50 ORAL
 LD50 DERMAL
 LC50 INHALATION

 Hydrochloric acid
 238 - 277 mg/kg (rat)
 >5010 mg/kg (rabbit)
 1.68 mg/L/1hr (rat)

SKIN CONTACT: May cause irritation or burning. Prolonged contact may result in chemical burns. Prolonged

or repeated contact may cause dermatitis.

EYE CONTACT: Causes severe eye irritation. Without immediate first aid permanent eye damage can result.

INGESTION: Burning in mouth and throat, and pharynx and gastrointestinal tract. Large amounts may

lead to abdominal pain and vomiting.

INHALATION: Hydrochloric acid solutions can readily release high concentrations of hydrogen chloride gas,

which is very toxic and corrosive and poses a serious inhalation hazard.

CARCINOGENICITY: Not considered as carcinogenic by IARC, ACGIH or NTP.

TERATOGENICITY: No information available. REPRODUCTIVE TOXICITY: No information available.

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MUTAGENICITY: No information available.

CHRONIC TOXICITY: No information available.

TARGET ORGAN EFFECTS: No information available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No product information available.

COMPONENTLC50 (gambusia affinis)EC50 (daphnia)EC50 (algae)Hydrochloric acid282 mg/L/96hr56 mg/L/72hrNot available

PERSISTENCE AND DEGRADABILITY: Not applicable to inorganics materials.

BIOACCUMULATIVE POTENTIAL: Not available.

MOBILITY IN SOIL: Not available.

OTHER ADVERSE EFFECTS: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with all federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Rinse empty containers thoroughly before discarding.

SECTION 14: TRANSPORTATION INFORMATION

TDG: Regulated*
DOT: Regulated
IATA: Regulated
IMDG: Regulated
UN NUMBER: UN1789

PROPER SHIPPING NAME: Hydrochloric acid, solution

CLASS: 8
PACKING GROUP: III

IMDG HAZARDS:Not availableBULK TRANSPORT:Not applicableSPECIAL PRECAUTIONS:Not available

SECTION 15: REGULATORY INFORMATION

DSL: All ingredients are listed on the DSL.

WHMIS CLASS: D1A, E

TSCA: All ingredients are listed or exempt from listing.

SECTION 16: OTHER INFORMATION

REVISION DATE: February 8, 2019

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© Di-Corp 2018 Page 4 of 4

^{*}NOTE: Lab reagent size product can be shipped as a LIMITED QUANTITY.