

JOHNSON MANUFACTURING COMPANY
Material Safety Data Sheet
 to comply with 29 CFR 1910.1200,
 OSHA's Hazard Communication Standard

Muriatic Acid, 25-00

Section I:

Johnson Manufacturing Company 114 Lost Grove Road Princeton IA 52768	Emergency Telephone (563)-289-5123 CHEMTREC 1-(800)-424-9300 Revised 1/1/2012
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Section II: Hazardous Ingredients/Identity information

Hazardous Component	CAS #	OSHA TWA	ACGIH TWA	Other limits
+ hydrogen chloride	7647-01-0	2ppm C	5ppm C	NE 35 %

C = Ceiling concentration

Only those ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200.
 An ingredient marked with an asterisk(*) is also listed in 29CFR 1910.1200(D) #4 as a known or suspected cancer hazard.

+ denotes a chemical regulated as toxic by the Environmental Protection Agency (EPA) as outlined in 40CFR Part 372 (section 313)

Section III: Physical/Chemical Characteristics

Boiling Point: 180 F	Specific Gravity: 1.16
Vapor Pressure (mm Hg): 35mm @ 25 C	Melting Point: - 60 F
Vapor Density: 1.27	Evaporation Rate
Solubility in water: 100 %	(butyl acetate=1): < 1

Appearance and odor: clear liquid - chlorine odor

Section IV: Fire and Explosion Hazard Data

Flash Point: nonflammable Flammable limits 1el: NA uel: NA
 Extinguishing media: all
 Special fire fighting procedures: use self sustaining respiratory suit
 Unusual Fire and Explosion Hazards: May release hydrochloric acid fumes.

Section V: Reactivity Data

Stability : STABLE Conditions to avoid : none
 Incompatibility (materials to avoid): strong bases, metals, cyanides, sulfides.
 Hazardous Decomposition or Byproducts (incomplete combustion): Hydrochloric acid
 Hazardous Polymerization: WILL NOT OCCUR Conditions to avoid: none

Section VI: Health Hazard Data

Routes of entry: Inhalation? yes Skin? no Ingestion? yes

Health Hazards (acute and chronic) Contact with material, fumes, or mist may cause skin, eye and respiratory tract irritation or burns, some possibly severe. Eye injury may be permanent. Gross or repeated inhalation may result in pulmonary edema, symptoms of which may not manifest for several hours after exposure. Ingestion can result in irritation or burns of the digestive tract. Gross inhalation or ingestion can result in death. LD50 (HCl) (Rabbit)=900mg/Kg. Chronic exposures via inhalation and ingestion may result in liver, spleen, and respiratory tract effects. May be mutagenic in lab animals. Studies show that potential health risks vary by individual. Always minimize exposure as a precaution.

Carcinogenicity: not determined NTP? no IARC Monographs? no

Signs and symptoms of exposure: Inhalation-Nose & throat irritation, headache, dizziness, difficulty breathing, coughing. Ingestion-nausea, vomiting, cramps. Skin-redness, burning, rash, dryness. Eye-redness, burning, tearing, blurred vision.

Medical Conditions Aggravated by exposure: Liver, spleen, skin and respiratory conditions

Emergency first aid procedures:

Skin: Flush with water immediately - Seek medical attention if necessary
 Eyes: Flush with water for 15 minutes - Seek medical attention
 Ingestion: Drink large amounts of water, DO NOT induce vomiting-see medical attention.
 Never give anything by mouth to an unconscious person.
 Inhalation: Remove to fresh air. Support respiration if required.
 Seek medical attention if required.

Section VII: Precautions for Safe Handling and Use

Steps to be taken if material is released or spilled: Flush into a chemical sewer or soak up with a suitable absorbant.

Waste Disposal Method: dispose of in accordance with all local state and federal regulations
Other Precautions: Avoid skin & eye contact, inhalation & ingestion of fumes and material.
Wash contaminated clothing before reuse. Keep away from children. Do not reuse container.

Section VIII: Control Measures

Respiratory Protection (type): Acid type respirator required for fumes.
Ventilation Local Exhaust preferred Special: NE
Mechanical: OK Other: NE
Protective Gloves: plastic or rubber Eye Protection: Goggles or face shield
Other Protective Clothing or Equipment: as required to avoid contact.
Work/Hygienic Practices: Wash after use. Follow good industrial hygienic practices.

Section IX: Additional Information

DOT Hazard Classification: Hydrochloric Acid, solution, 8, UN 1789, PG II
NFPA Classification (NFPA 325M, 8th edition) (Health, Flammability, Reactivity): 3-0-1

OTHER: This product does NOT contains components known to the state of California to cause cancer or reproductive harm.

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NE = not established NA = not applicable

Form 303.64 Rev.C

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