

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MURIATIC ACID 31%

Product Code: VF0260 (Qt) / VF0261 (Gl)

Manufacturer:

Master Paints & Chemical Corp.
Carr. 127 Km 12.7 Bo. Magas
Guayanilla, P.R. 00656

www.mastergroup-pr.com

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2. HAZARDS IDENTIFICATION

GHS Ratings:

Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal.
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity \geq 3, Iritis > 1.5
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation

GHS Hazards

H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

GHS Precautions

P260	Do not breathe dust / fume / gas / mist / vapours / spray
P261	Avoid breathing dust / fume / gas / mist / vapours / spray
P264	Wash hands thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection

GHS Response

P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment see product label
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

GHS Storage and Disposal

P405 Store locked up
P403+P233 Store in a well ventilated place. Keep container tightly closed
P501 Dispose of contents/container in accordance with all local, regional, national and international regulations.

Signal Word: Danger



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration (%)
Water	7732-18-5	69.00
Hydrochloric Acid	7647-01-0	31.00

4. FIRST AID MEASURES

Inhalation: If user experience difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered. Obtain medical attention immediately.

Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm

Eye Contact: Immediately rinse thoroughly with plenty of water for at least 15 minutes, remove contact lenses if present and easy to do. Continue to flush with water, forcibly holding eyelids apart to ensure complete irrigation of all of the eye and lid tissues. Flushing the eyes with water within several seconds is essential to achieve maximum effectiveness. Seek immediate medical attention.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash off with soap and plenty of water. Consult a physician. Seek Immediate medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. If vomiting occurs spontaneously, keep airway clear. Keep head low so that stomach content doesn't get into the lungs. Seek immediate medical attention.

Notes to Physician: Show this safety data sheet to the doctor in attendance. Probable mucosal damage may contraindicate the use of gastric lavage

5. FIRE FIGHTING MEASURES

Flash Point: No information available

Flammable Limits: Not applicable

Suitable Extinguishing Media: Non-combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder). Use water spray to keep fire-exposed containers cool.

Unusual Fire / Expl. Hazards: Releases flammable hydrogen gas when reacting with metals.

Hazard Combustible Products: Non-combustible.

Fire Fighting Instructions: Use standard firefighting procedures and consider the hazards of other involved materials.

Fire Equipment: Wear NIOSH approved positive - pressure self-contained breathing apparatus and full protective clothing. In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Spill / Leak Procedures: Follow preplanned emergency procedures. Only properly equipped, trained, functional personnel should attempt to contain a leak. All other personnel should be evacuated from the danger area. Using full protective equipment, apply appropriate emergency device or other securement technology to stop the leak if possible.

Small Spills: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: neutralize the residue with a dilute solution of sodium carbonate.

Large Spills: Evacuation of surrounding area may be necessary for large spills. Wear appropriate personal protective equipment. Completely contain spilled material with dikes, sandbags, etc. Shut off ventilation system if needed, Reprocess or reuse if possible. Neutralize with soda ash or dilute caustic soda. Collect with appropriate absorbent and place into suitable container. Keep out of sewers and water supplies, this material is acidic and may lower the pH of the surface waters with low buffering capacity.

7. HANDLING AND STORAGE

Handling Precautions: Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose the empty container according to all regulations. Do not reuse this container.

Wear appropriate personal protective equipment. Do not breathe mist or vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Observe good industrial hygiene practices.

When mixing, slowly add acid to water to minimize heat generation and spattering. Never add water to acid.

Storage Requirements: Keep container tightly closed when not in use. Store in a cool, dry place away from direct sunlight and heat to avoid container deterioration. Avoid storage at extreme high or low temperatures. Protect from freezing. Keep container properly labeled. Store in a well-ventilated place.

Store away from incompatible materials. Store in the upright position.

Store in acid resistant plastic, glass containers, or rubber - lined steel containers, Do not store in aluminum containers or use aluminum fittings or transfer lines.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Water 7732-18-5	Not Established	Not Established	Not Established
Hydrochloric Acid 7647-01-0	5 ppm 7.59 mg/m ³	5 ppm (7.59 mg/m ³ TWA ppm	NIOSH IDLH = 50 (as HCl,2010)

Appropriate Engineering Controls: Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. If inhalation risk exists: use with local ventilation or while wearing suitable mist respirator. Keep containers closed when not in use.

Personal protection:

Eye Protection: Safety glasses with side shields. Wearing chemical goggles with a face shield is recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn. Provide an emergency eyewash station or quick drench shower in the immediate work area.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Glove Type Recommended: Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with products.

Other Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

Work / Hygienic / Maintenance Practices: A source of clean water should be available in the work area for flushing of eyes and skin.

Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the area. Discard any clothing or other protective equipment that cannot be decontaminated.

Ventilation: Use closed system when possible. Provide local exhaust ventilation where vapor or mist may be generated. Ensure compliance with applicable exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless liquid
Odor	Irritating and pungent odor
Odor Threshold	4.7 ppm @ at 25 °C
pH	< 1.0
Melting Point	Not applicable
Boiling Point & Boiling Range	85 °C (185°F)
Flash point	No information available
Evaporation rate	< 1
Flammability (Solid, gas)	Nonflammable and noncombustible
Upper / Lower Flammability or Explosive Limits	Not applicable
Vapor pressure	40 mm Hg @ 30 °C (86 °F)
Vapor Density	No information available
Relative Density (Specific Gravity)	1.16 +/- .02 @ 15.5 °C (60 °F)
Solubility in Water	100%

10. STABILITY AND REACTIVITY

Reactivity:	Reacts with alkalis
Chemical stability:	Corrosive too many metals with the liberation of extremely flammable hydrogen gas
Possibility of hazardous reactions:	Reacts with oxidizing agents and sodium hypochlorite liberating toxic chlorine gas
Incompatible materials:	Incompatible with alkalis, oxidizing agents, sodium hypochlorite, cyanides, and many metals
Conditions to avoid:	Avoid contact with foodstuffs.
Hazardous decomposition products:	Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Eyes, skin, ingestion

No adverse health effects expected if the product is handled in an accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting, diarrhea, abdominal pain and chemical burns to the gastrointestinal tract.

Eye Contact: a severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Skin contact: Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

Inhalation: Breathing in mists or aerosols will produce respiratory irritation.

Chronic effects: Repeated exposure to low levels of hydrochloric acid may produce discoloration and erosion of teeth and ulceration of the nasal passages.

Condition Aggravated:

Inhalation: Vapors and mist will irritate throat and respiratory system and cause coughing.

Skin contact: Causes skin burns.

Eye contact: Causes eye burns.

Ingestion: Harmful if swallowed. Causes digestive tract burns. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics:

Contact with this material will cause burns to the skin, eyes and mucous membranes. Permanent eye damage including blindness could result.

12. ECOLOGICAL INFORMATION

Use closed systems when possible. Provide local exhaust ventilation where vapor or mist may be generated.

Avoid discharge into drains, water courses or onto the ground.

General Ecological Information: No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods: Collect and reclaim or dispose in sealed containers at a properly licensed waste disposal site.

This material, if not neutralized, must be disposed of as hazardous waste. Do not allow this material to drain into Sewers / water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

Dispose of contents/container in accordance with local/regional/national or international regulations.

14. TRANSPORT INFORMATION

Road Transport: Classified as dangerous Goods by the criteria of the United States Department of Transportation (USDOT Code) for transport by Road; Dangerous Goods.

Marine Transport: Classified as dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

	DOT Classification	IMDG/ IMO Classification
UN Number	UN 1789	UN 1789
Proper shipping name	Hydrochloric Acid	Hydrochloric Acid
Transport hazard class	8	8
Packaging group	PG II	PG II
Additional information	Special Provision ERG # 157	Emergency schedules (EmS) F-A, S-B
Reportable Quantity (RQ)	5,000lb (2270 Kg)	5,000lb (2270 Kg)

15. REGULATORY INFORMATION

U.S. Regulations:

OSHA HAZCOM (Hazard communication): This material is considered hazardous under the HAZCOM standard (29CFR 1910.1200)

OSHA PSM (Process Safety Management): Not regulated under PSM standard (29CFR 1910.119)

EPA EPCRA (EPA Emergency Planning and community Right to know Act): Not listed on Extremely Hazardous Substances and Their Threshold Planning Quantities. (Appendix A to 40 CFR Part 355)

EPA TSCA (Toxic Substance Control Act): All components are listed or exempted. TSCA 12(b): this product is not subject to export notification.

EPA CERCLA: (Comprehensive Environmental Response, compensation, and Liability Act): Reportable Quantity (RQ) under CERCLA: 5000 lbs. (1643 gallons)

EPA FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act): Not regulated under FIFRA standard

EPA RPM (Risk Management Plan): Not regulated under RMP. (40 CFR 68.130)

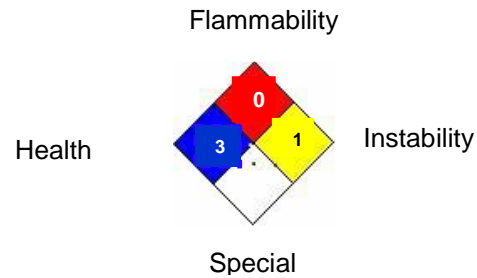
16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	L

HMIS & NFPA Hazard Rating

National Fire Protection Association (NFPA)



Legend

- * = Chronic Health Hazard
- 0 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE
- 3 = HIGH

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Reviewer Revision:

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