

HASA MURIATIC ACID

Safety Data Sheet

Emergency 24 Hour Telephone:

CHEMTREC 800.424.9300

Corporate Headquarters:

Hasa Inc. P. O. Box 802736 Santa Clarita, CA 91355 Telephone • 661.259.5848 Fax • 661.259.1538

| | | SECTION | 11: IDENTIFICATION |
|-----|-------|--|--|
| 1.1 | Prod | uct Identification: | S |
| | 1.1.1 | Product Name: | HASA MURIATIC ACID |
| | 1.1.2 | CAS # (Chemical Abstracts Service): | 7647-01-0 |
| | 1.1.3 | RTECS (Registry of Toxic Effects of Chemical Substances): | MW4025000 |
| | 1.1.4 | EINECS (European Inventory of Existing Chemical Substances): | 231-595-7 |
| | 1.1.5 | Synonym: | Hydrochloric Acid, Spirits of Salt |
| | 1.1.6 | Chemical Name: | Hydrochloric Acid |
| | 1.1.7 | Chemical Formula: | HCI |
| 1.2 | Reco | mmended Uses: | Household cleaning, swimming pool water pH control and neutralization. |
| 1.3 | Com | pany Identification: | Hasa Inc. P.O. Box 802736 Santa Clarita, CA 91355 |
| 1.4 | Emer | gency Telephone Number: | CHEMTREC: 1-800-424-9300 (24 hour) |
| 1.5 | Non-l | Emergency Assistance: | 661-259-5848 (8 AM – 5 PM PST / PDT) |

| SECTI | ON 2: HAZARD(S) IDE | NTIFICATION | S° T |
|-------------------------|---|---|----------------------|
| Health Hazard | Acute Toxicity (Oral): | Category 4 | |
| | Skin corrosion / irritation: | Category 1 | <u>s</u> |
| | Serious eye damage / | Category 1 | Dat |
| | irritation | | |
| | Specific Target Organ Toxicity (Single exposure) | Category 3 (respiratory tract irritation) | MURIA ta Sheet (S |
| Physical Hazard | Corrosive to metals. | Category 1 | |
| Symbols | A CONTRACT OF A | | DS No. 1 |
| Signal Word | | DANGER | 0 <u>0</u> |
| Hazard Statement | Causes severe skin burns & Harmful if swallowed. May cause respiratory irrita Maybe corrosive to metals. | | . . |
| Precautionary Statement | | Prevention | |
| | protection. Do not eat, drink or smoke Do not breathe mist or vapo Use only outdoors or in a w Wash hands thoroughly afte Keep only in original contain | or. ell-ventilated area. er handling. | |
| | | Response | |
| | If swallowed: Rinse mouth. If inhaled: Remove person to breathing. | - | |
| - V | | immediately all contaminated clothing. | |
| | Rinse skin with water/show | | |
| | | with water for several minutes. Remove nd easy to do. Continue rinsing. | |
| | | enter/doctor. Wash contaminated | |
| | | rb spillage to prevent material damage. | |
| | | Storage | |
| Distributed 296 281 | Store locked up. Store in a well-ventilated place. Keep | | |
| | | Disposal | |
| V. S. | Dispose of container/conter national, international regul | nts in accordance with local, regional, ations as specified. | |

| 0 | SECTION 3: COMPO | SITION / INFORMATION | ON INGREDIENTS |
|-----|-------------------|----------------------|--------------------|
| | Ingredient | CAS No. | Weight % (Approx.) |
| 3.1 | Hydrochloric Acid | 7647-01-0 | 31.45% |
| 3.2 | Water | 7789-20-0 | 68.55% |

| | SECTION 4: FIRST-AID MEASURES | ູ ເ ເ |
|--------------------------------|--|---------------|
| 4.1. IF IN EYES | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. | afety Data Sh |
| 4.2. IF ON SKIN OR CLOTHING | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. | NET SD |
| 4.3. IF INHALED | Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. | DS No. 110 |
| 4.4. IF SWALLOWED | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. | |
| | HOT LINE NUMBER | |
| | ner or label with you when calling a poison control center or doctor, or may also contact 1-800-424-9300 for emergency medical treatment | |
| | NOTE TO PHYSICIAN | |

Probable mucosal damage may contraindicate the use of gastric lavage.

| | | SECTION 5 | 5: FIRE-FIGHTING MEASURES |
|-----|--------|---------------------------------------|---|
| 5.1 | Produ | icts of Combustion: | Hydrogen and chlorine |
| 5.2 | | lazards in Presence of us Substances: | Reacts with many metals to liberate hydrogen gas which can form explosive mixtures with air. |
| 5.3 | Explo | sion Hazards: | Not sensitive. |
| 5.4 | Fire F | ighting Media and Instru | uctions: |
| | 5.4.1 | Extinguishing Media: | Use extinguishing measures appropriate to local circumstances and the surrounding environment. |
| | 5.4.2 | Small Fires: | Use carbon dioxide, dry chemical, dry sand, alcohol- resistant foam or water spray. |
| Ó | 5.4.3 | Large Fires: | Water spray, fog or alcohol-resistant foam. Move containers from fire area if you can do it without risk. Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. |
| 5.5 | | nvolving Tank Cars / r Loads: | Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Do not get water inside containers. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. |

SECTION 6: ACCIDENTAL RELEASE MEASURES Safety Data Sheet (SDS 6.1 Small Spill: Gather up with a squeegee and place in pool and spa. If this is not possible, absorb with sand, diatomaceous earth or similar products and securely bag, and place in trash for collection. Steps to be taken in case material is released or spilled: 6.2 Large Spill: Spills or discharges into the environment involving large quantities of Hydrochloric Acid should be controlled and cleaned-up according to a pre-determined, affirmative written Spill Prevention and Control Program. Refer to Section 15 for spill/release reporting information. Spills should be handled immediately by neutralization and dilution of the spilled product by the use of Soda Ash (Sodium Carbonate), No. 110 Lime (Calcium Hydroxide), or Limestone (Calcium Carbonate) with large amounts of water. For an interior (inside a closed space) spill be aware that the use of Soda Ash, Lime and Limestone will evolve heat and carbon dioxide and that ample ventilation must be provided. If possible without personal risk, stop leak. Try to prevent the materials from entering drains, waterways, or sewers and dispose of in accordance with local regulations. Rinse exposed area with dilute sodium carbonate solution.

| | SECT | ION 7: HANDLING AND STORAGE |
|-----|-----------------------|--|
| 7.1 | Handling: | Keep away from skins and eyes. Do not inhale or swallow. Do not mix with chlorine type bleaches or other household chemicals. Whenever handling muriatic acid, wear protective clothing (goggle old clothing and rubber gloves). Remove protective clothing and wash before reuse. |
| 7.2 | Storage and Disposal: | Store muriatic acid in a clean, dry place in the upright position. Kee out of reach of children, pets and other animals. Rinse empty container thoroughly before discarding. |
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| | SE | CTION 8: EXPOSURE | CONTROLS / PERSONAL PROTECTION | S |
|--------------|-------|--|--|-----------------|
| 8.1 E | Engin | eering Controls: | Local exhaust to maintain levels below Permissible Exposure Limit (PEL). | Safety |
| 8.2 P | Perso | nal Protection: | When necessary, wear splash goggles or safety glasses and gloves. | Data |
| | | nal Protection in case of a Spill: | Wear splash goggles or safety glasses and gloves. If natural ventilation is insufficient, wear a NIOSH approved respirator. | Data Sheet (SDS |
| 8.4 E | Expos | sure Guidelines: | <u>6</u> | ŪS, |
| 8. | 3.4.1 | ACGIH (American Conference of Governmental and Industrial Hygienists) TLV (Threshold Limit Value) | 5 ppm (7 mg/m ³) Ceiling | S No. 110 |
| 8. | 3.4.2 | PEL (OSHA Permissible Exposure Limit) | 5 ppm (7 mg/m ³) Ceiling Limit | 0 |
| 8. | 3.4.3 | IDLH (NIOSH Immediate Danger to Life & Health) | 50 ppm (75 mg/m ³) | |
| 8. | 3.4.4 | AIHA (American Industrial Hygiene Association) | ERPG – 1 (The maximum airborne concentration below which it is believed nearly all individuals could be exposed for up to one hour without experiencing other than mild transient adverse health effects or perceiving a clearly defined objectionable odor.): 3 ppm ERPG – 2 (The maximum airborne concentration below which it is believed nearly all individuals could be exposed for up to one hour without experiencing or developing irreversible or other serious health effects or symptoms that could impair an individual's ability to take protective action.): 20 ppm ERPG – 3 (The maximum airborne concentration below which it is believed nearly all individuals could be exposed for up to one hour without experiencing or developing itreversible or other serious health effects or symptoms that could impair an individual's ability to take protective action.): 20 ppm ERPG – 3 (The maximum airborne concentration below which it is believed nearly all individuals could be exposed for up to one hour without experiencing or developing life-threatening health effects.): 150 ppm | |

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| | SECTION 9: PHYSICAL | AND CHEMICAL PROPERTIES | S° 🛛 |
|------|---|--|------------------------|
| 9.1 | Appearance: | Colorless liquid. | Safety Data Sheet (SDS |
| 9.2 | Odor: | Irritating and pungent odor. | ∥ <u>~</u> () |
| 9.3 | Odor Threshold: | 4.7 ppm @ at 25 ℃ | |
| 9.4 | pH: | <1.0 | ∎ ta < |
| 9.5 | Melting Point: | Not applicable. | 📗 လု 🖊 |
| 9.6 | Freezing point: | -46.9℃ (-52.5℉) | ata Sheet |
| 9.7 | Boiling Point & Boiling Range: | 85℃ (185°F) | ¥ [|
| 9.8 | Flash Point: | No information available. | ୍ର 🕨 |
| 9.9 | Evaporation Rate: | No information available. | S S |
| 9.10 | Flammability (solid, gas): | Nonflammable and noncombustible. | No. 110 |
| 9.11 | Upper / Lower Flammability or | Not applicable. | III ▶ |
| | Explosive Limits: | | 1 c |
| 9.12 | Vapor Pressure: | 40 mm Hg @ 30°C (86°F) | |
| 9.13 | Vapor Density: | No information available. | |
| 9.14 | Relative Density (Specific Gravity): | 1.16 @ 15.5 ℃ (60 °F) | |
| 9.15 | Solubility in Water: | Mixes with water in all concentrations. | |
| 9.16 | Partition Coefficient: (n-octanol / water): | Not applicable. | |
| 9.17 | Auto-ignition Temperature: | Not applicable. | |
| 9.18 | | 85°C. Rate of decomposition increases with heat. | 11 |
| 9.19 | Molecular Weight: | 36.46 g/mole | 11 |
| 9.20 | Viscosity: | 1.55 centipoises @ 30°C (86°F) | 11 |
| | | lo. Ca | |

| 10.1 | Stability: | Stable under normal conditions of storage, han |
|------|---|--|
| | | and use. |
| 10.2 | Instability Temperature: | 85°C. Rate of decomposition increases with he |
| 10.3 | Conditions of Instability: | High heat, ultraviolet light. |
| 10.4 | Incompatibility with Various Substances: | Oxidizing agents, acids, nitrogen containing org metals, iron, copper, nickel, cobalt, organic materials, and ammonia. Corrosive to most metals with evolution of hydro gas, which may form explosive mixtures with ai |
| 10.5 | Special Remarks on Reactivity: | Rate of decomposition increases with heat. |
| 10.6 | Hazardous Polymerization: | Will not occur. |
| 10.0 | nazaruous Polymenzation. | |

| 11.1 | Routes of Entry: | Eyes, skin, ingestion. |
|---------------|---|---|
| | - | |
| 11.2 | Eye damage & skin corrosion: | Causes eye burns. Contact with this material will |
| | | cause burns to the skin, eyes and mucous |
| | | membranes. Permanent eye damage including |
| 11.0 | Aguta Oral Taviaity (LD.) | blindness could result. |
| 11.3 | Acute Oral Toxicity (LD ₅₀): | NIOSH: 900 mg/kg (rabbit) |
| 11.4 | Acute Inhalation Toxicity (LC ₅₀): | 3124 mg/l, 1 Hour (rat) |
| 11.5 | Toxic Effects on Humans: | Harmful if swallowed. Causes digestive tract |
| | | burns. Ingestion may produce burns to the lips, |
| | | oral cavity, upper airway, esophagus and possibly |
| | | the digestive tract. |
| 11.6 | Carcinogenic [Cancer Potential] Info | rmation: |
| | NTP (National Toxicological Program 6 th | Not Listed. |
| | Annual Report on Carcinogens): | J. 9 |
| | IARC (International Agency for Research | Not Listed. |
| | on Cancer Monographs, V. 1-100): | |
| | Proposition 65, California only: | Not Listed. |
| | (Safe Drinking Water and Toxic | O' A |
| . | Enforcement Act of 1986): | |
| 11.7 | Mutagenic Effects: | No data available to indicate product or any |
| | | components present at greater than 0.1% are |
| | | mutagenic or genotoxic. |
| 11.8 | Signs and Symptoms of Exposure: | Exposure to hydrochloric acid may cause severe |
| | | burns at the contact points. |
| 11.9 | Medical Conditions Generally | Exposure to fumes may aggravate dermatitis and |
| | Aggravated by Exposure: | breathing disorders. |
| 11.10 | Health Hazards (Acute and | Hydrogen Chloride, both as a gas and in a |
| | Chronic): | solution as Hydrochloric Acid, is a corrosive |
| | S | substance and can cause severe and painful |
| | C'O S | burns on contact with any part of the body or if |
| | | taken internally. The mucous membranes of the |
| | | eyes and the upper respiratory tract are especially |
| | | susceptible to the irritating effects of high |
| | | atmospheric concentrations of Hydrogen Chloride. |
| | | The gas or vapor is so penetrating and pungent |
| | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | that when high concentrations do occur, those |
| | | exposed should immediately leave the |
| | | contaminated area. |
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| | SEC | TION 12: ECOLOGICAL INFORMATION | S° H |
|------|----------------------------------|---|-----------------------|
| 12.1 | Ecotoxicity General: | This product is toxic to fish and aquatic organisms. Do not contaminate water containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. | HASA N Safety Data |
| 12.2 | Ecotoxicological Information: | LC₅₀ Shrimp 100 to 330 ppm/48 hr (salt water) LC₅₀ Mosquito Fish 282 mg/L (24 to 96 hours) LC₅₀ Green crabs 100 mg/L (96 hr produced no stress effects) LC₅₀ Gold fish 180 mg/L (96 hours) Aquatic Hazard Concern Level : moderate | IURIATI Sheet (SDS |
| 12.3 | Persistence and Degradation: | When hydrochloric acid is spilled onto soil, it will begin to infiltrate. The presence of water in the soil will influence the rate of chemical movement in the soil. During transport through the soil, hydrochloric acid will dissolve some of the soil material, in particular those of a carbonate base. The acid will be expected to remain for transport down toward the ground water table. Hydrogen chloride in water dissociates almost completely, with the hydrogen ion captured by the water molecules to form the hydronium ion. | IC ACID No. 110) |
| 12.4 | Products of Biodegradation: | Not pertinent. | |

SECTION 13: DISPOSAL CONSIDERATIONS

Do not contaminate food or feed by storage, disposal, or cleaning of equipment. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination system (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Dispose of in accordance with all applicable local, county, State, and Federal regulations.

Revision Date: 01/01/2015 (Supersedes previous revisions)

| 14.1 | | ON 14: TRANSPORT INFORMATION |
|---------|---|---|
| | Shipping Name: | Hydrochloric Acid |
| 14.2 | Hazard Class / Division: | 8 |
| 14.3 | Identification No.: | UN 1789 |
| 14.4 | Packing Group: | PG II |
| 14.5 | Reportable Quantity (RQ): | 5,000 lb (1643 gallons) |
| 14.6 | DOT Special Permit 6614: | Hydrochloric acid may be shipped in deposit 1 gallon polyethylene bottles secured 4 per case in a plastic crate in accordance with DOT-SP-6614. In these cases, the special permit number "DOT- SP-6614" is included in the shipping description. The shipping description for return of empty deposit bottles and crates is "RESIDUE: LAST CONTAINED UN1789, HYDROCHLORIC ACID, 8, PGII, DOT-SP 6614". |
| 14.7 | Deposit Pails, Carboys and Drums: | The shipping description for return of empty deposit pails, carboys, and drum is "RESIDUE: LAST CONTAINED UN1789, HYDROCHLORIC ACID, 8, PGII". |
| relatir | nformation is not intended to ng to this product. It is the re- ations and rules relating to th | regulations that apply to MOTs are found in 49 CFR § 173.6. convey all specific regulatory or operational requirements / information sponsibility of the transporting organization to follow all applicable laws, the transportation of the material. |
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| | stilouted by 282 | 63 ³ ¹ |

SECTION 15: REGULATORY INFORMATION

| 15.1 | | | This metadation is the state | | | |
|----------------|----------------------------------|--|--|--|--|--|
| | 15.1.1 | OSHA HAZCOM (Hazard Communication) | This material is considered hazardous und the HAZCOM standard (29 CFR 1910.120 | | | |
| | 15.1.2 | OSHA PSM (Process Safety | Ine RAZCOM standard (29 CFR 1910.120 Not regulated under PSM standard (29 CF 1910.119). Not listed on Extremely Hazardous Substances and Their Threshold Planning Quantities. (Appendix A to 40 CFR Part 35 All components are listed or exempted. TSCA 12(b): This product is not subject to export notification. | | | |
| | 10.1.2 | Management): | | | | |
| | 15.1.3 | EPA EPCRA (EPA Emergency Planning and Community Right-to-know Act): | | | | |
| | 15.1.4 | EPA TSCA (Toxic Substance Control Act): | | | | |
| | 15.1.5 | EPA CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): | Reportable Quantity (RQ) under CERCLA 5000 lbs. (1643 gallons). | | | |
| | 15.1.6 | EPA FIFRA (Federal Insecticide, Fungicide, Fungicide, and Rodenticide Act): | Not regulated under FIFRA standard. | | | |
| | 15.1.7 | EPA RMP (Risk Management Plan): | Not regulated under RMP. (40 CFR 68.13 | | | |
| 15.2 | State of California Regulations: | | | | | |
| | 15.2.1 | CDPR (California Department of Pesticide Regulation): | Registration No: 10897-50008-AA (spray adjuvant) | | | |
| | 15.2.2 | CalARP (California Accidental Release Prevention): | Not regulated. | | | |
| 15.3 | | | | | | |
| | 15.3.1 | WHMIS (Workplace Hazardous Materials Information System): | rials WHMIS classification: D1A - Poisonous and infectious material - Immediate and serious effects - Very toxic E - Corrosive Materials | | | |
| | 15.3.2 | DSL (Domestic Substances List): | All components of this product are on the DSL. | | | |
| 15.4 | | | | | | |
| | 15.4.1 | AICS (Australian Inventory of Chemical Substances): | On inventory or in compliance with invento | | | |
| O ¹ | 15.4.2 | KECI (Korean Existing Chemicals Inventory): | On inventory or in compliance with invento | | | |
| | 15.4.3 | PICCS (Philippine Inventory of Chemicals and Chemical Substances): | On inventory or in compliance with invento | | | |
| | 15.4.4 | IECSC (Inventory of Existing Chemical Substances in China): | On inventory or in compliance with invento | | | |
| | 15.4.5 | NZIOC (New Zealand Inventory of | On inventory or in compliance with inventor | | | |

HASA MURIATIC ACID Safety Data Sheet (SDS No. 110)

| | | SECTION 16: OTHER | INFORMATION | | S° T | |
|------|--|--|-----------------------------------|--|---|--|
| 16.1 | 6.1 HMIS III (Hazardous Materials Identification System): | | | | | |
| | 16.1.1 | HEALTH | 3 | | AS/ afety [| |
| | 16.1.2 | FLAMMABILITY | 0 | | Dat | |
| | 16.1.3 | PHYSICAL HAZARD | 0 | | MU ta Sh | |
| | 16.1.4 | PERSONAL PROTECTION | See Section 8 | | | |
| 16.2 | NFPA | 704 (National Fire Protection Association): | | | IRIA | |
| | 16.2.1 | Health | 3 | | <u>ି</u> (ରୁ 🏲 | |
| | 16.2.2 | Flammability | 0 | | | |
| | 16.2.3 | Instability | 0 | | Z C | |
| | 16.2.4 | Special | None | | | |
| 16.3 | 16.3 International Fire Code / International Corrosive Liquid. | | | | HASA MURIATIC ACIC Safety Data Sheet (SDS No. 110) | |
| 16.4 | ANSI | (American National Standards Institute): | | | | |
| | 16.4.1 Hazardous Industrial Chemicals - MSDSs-Preparation: | | Complies with ANSI Z400.1 – 2004. | | | |
| | 16.4.2 | Hazardous Industrial Chemicals - Precautionary Labeling: | Complies with ANS | | | |
| mg/m | ո ³ = (pp | nvert concentrations in air (at 25°C) fro m) × (molecular weight of the compour loric acid: 1 ppm = 1.49 mg/m ³ . | 0.1 | | | |

Disclaimer of Liability:

The information contained herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge and belief. NO WARRANTY OR GUARANTEE, express or implied, is made regarding the product performance, product stability, or as to any other condition of use, handling, transportation, and storage. Customer use, handling, transportation, and storage may involve additional safety and/or performance considerations. Our technical personnel will be happy to respond to questions regarding safe handling, storage, transportation, and use procedures. The safe handling, storage, transportation, and use procedures. No suggestions for handling, storage, transportation, or use are intended as or to be construed as recommendations which may infringe on any existing patents or violate any Federal, State, and/or local law and/or regulation, ordinance, standard, etc. This Safety Data Sheet has been prepared by Hasa, Inc. staff from test reports and other information available in the public domain.