Section 1 Chemical Product and Company Identification Page E1 of E2

BO1 Janesville Ave. OSCO P.O. Box 901 Fort Athinson, Wt 53538-0901 **CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300 For laboratory use only Not for drug, food or household use

Product

HYDROCHLORIC ACID, 36.5-38%

Synonyma

Muriatic Acid; Hydrogen Chloride, Hydrochlonc Acid 12M

Section 2

Hazarda identification

Signal word: DANGER Pictograms: GHS05/GHS07

Target organs: Respiratory system, skin, eyes, lungs





GHS Classification: Serious eye damage (Category 1) Skin corr. (Category 1B) STOT SE (Category 3)

GHS Label Information: Hazard statement(s): H314 Causes severe akin burns and eye damage. H335: May cause respiratory imtation

Km01032 SB51099 Km00319

Precautionary statement(s): P260: Do not breathe mist/vapours/spray

P284: 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.

P301+P330+P331: IF SWALLOWED: Rinse mouth, Do NOT induce vomiting P303+P351+P353; IF ON SKIN (or hair). Take off immediately all conteminated

clothing Rinse skin with water/shower.
P304+P340: 4F INHALED. Remove victim to fresh air and keep at rest in a position

comfortable for breathing
P305+P351+P338: IF IN EYES: Rinse caubously with water for several minutes
Remove contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER or doctor/physician

P363: Wash contaminated clothing before reuse.

P403/233; Store in a well-ventilated place. Keep container tightly closed,

P405. Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Chemical Name	CAS #	У.	EINECS	
Water Hydrochlonc acid	7732-18-5 7647-01-0	82-83,5% 38,5-38%	231-791-2 231-595-7	

Section 4 First Aid Measures

INGESTION: Harmful if swallowed. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Remove to fresh air. If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Causes siye burns. Check for and romove contact lenses. Flush thoroughly with water for at least 16 minutes, lifting upper and lower eyellids occasionally. Get immediate medical attention

SKIN ABSORPTION: Causes skin burns. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention,

Section 6 Fire Fighting Measures

Sultable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep hm-exposed containers cool.

Specific Hazards: During a fire, initiating and highly toxic gases may be generated by thermal decomposition or combustion. Contact with metals produce hydrogen, which is fianimable and may produce explosive mixtures with air.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to sate area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Neutralize spill with sodium bloarbonate or caldum hydroxide, absorb with linert dry material, sweep or vacuum up and place in a sulfable container for proper disposal. Wash spill area with scap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and

Conditions for Safe Storage: Store in a cool dry, well-ventilated area away from incompatible substances. Protect from physical damage and sunlight. Protect from

Section 8 Exposure Controls / Personal Protection

OSHA (PEL) ACGIH (TLV) Chemical Name Exposure Limits:

STEL C 2 ppm / C 2 98 mg/m³ STEL C 5 ppm / C 7 mg/m3 Hydrogen chloride

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear eafley glasses goggles, or faceshield, lab coal or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: Use a chemical fume hood and/or wear a NIOSH/MSHA-approved respirator.

Physical & Chemical Properties

Appearance: Clear colorless furning liquid Odor: Pungent odor Odor threshold: Data not available

pH: <1 5 acidic in solution

Melting / Freezing point: Approx -45°C (-49°F)
Boiling point: 81 11-85°C (176-185°F)

Flash point: Not fiammable.

Evaporation rate (= 1): Data not available Flammability (solid/gas): Data not available.
Explosion limits: Upper/Lower: Data not available.

Vapor pressure (mm Hg): Approx. 25 @ 20°C (68°F)
Vapor density (Air = 1): Data not available
Relative density (Specific gravity): Approx. 1 16 @ 20°C
Molecular formula: HCI
Molecular weight: 36.46 Solubility(les): Soluble in water

Partition coefficient: (n-octanol / water). Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available.

Marine pollutant: No

Supercedes: June 20, 2016

STEL: C 5 ppm / C 7 mg/m3

Viscosity: Data not available

Section 10 Stability & Reactivity

Hazardous polymerization: Will not occur Chemical stability: Stable

Conditions to avoid: Containers may burst when heated. Avoid contact with water

Incompatible materials: Metals, bases, active metals, alkali metals, oxidizing agents, hydroxides, arrines, carbonates, cyanides, sulfites

Hazardous decomposition products: Hydrogen chloride gas

Toxicological information Section 11

Acute toxicity: Data not available Skin corrosion/irritation: Skin-rabbit - causes burns

Serious eye damage/irritation: Eyes-rabbit - Corrosive to eyes

Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available

Carcinogenity: Data not available.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

IARC: Group 3 Not classifiable as to its carcinogenicity to humans.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available.

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT-repeated exposure: Data not available.

Aspiration hazard: Dala not available

Potential health effects:

Potentian neutrition in the process of the mucous membranes and upper respiratory tract Ingestion. May be harmful if awaitowed Skin May be harmful if awaitowed Skin May be harmful if absorbed through skin Causes skin burns.

Eyes: Causes eye burns

Eyes. Justices by burns of exposure; Burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronch, pneumonitis, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, Additional information: RTECS #: MW4025000

Ecological Information Section 12

Toxicity to fish: LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid)

Toxicity to daphnis and other aquatic invertebrates: No data available Toxicity to algae: No data available

Persistence and degradability: No data available

Bloaccumulative potential: No data available

Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Reportable Quantity: No

Revision Date: February 8, 2017

Transport Information (US DOT / CANADA TDG) Section 14

Shipping name: Hydrochloric acid UN/NA number: UN 1789

Packing group: II Hazard class: 8

Exceptions: Limited quantity equal to or less than 1 Lt 2016 FRG Gulde # 157

Regulatory Information Section 15

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list

NDSL RCRA code DSL Component TSCA CERLCA (RQ) D002 Listed Not listed Listed Not listed Hydrochloric acid

Section 16 Other Information

The information contained literall is furnished without warranty of any kind. Employers should use this information only as a supplement to office information gathered by them and must make independent determinations of suitability and comploteness of information from all sources to assure proper use of these materials and the safety and health of employers. NTP National Toxicology Program, IARC International Agency for Research on Cancer OSHA. Occupational Safety and Health Administration. STOT Specific Target Organ Toxicity. SE. Finglit Exposure, RE. Repeated Exposure. ERG. Emergency Response Guidebook.

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