

Material Safety Data Sheet

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| WHMIS | Protective Clothing | TDG Road/Rail |
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SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

Product name: MURIATIC ACID (01010C11) **Effective Date:** 1/1/2015 **Code No.:** 043
Product use: Acid based cleaner and descaler
WHMIS: CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
CLASS E: Corrosive liquid.
TDG: Consumer Commodity / Limited Quantity
TDG CLASS 8: Corrosive liquid.
Shipping name: Corrosive Liquids, N.O.S. (Hydrochloric acid) UN: 1789 PG: II
Manufacturer: **Supplier:**
Lawrason's Inc.
460 Wyecroft Road
Oakville, ON, L6K 2G7
Tel: (905) 842-8300
Fax: (905) 842-8906

EMERGENCY PHONE : CANUTEC (613) 996-6666

SECTION II - HAZARDOUS INGREDIENTS

| Ingredients | CAS # | Wt% | ACGIH-TLV | LC₅₀/LD₅₀ |
|----------------------|--------------|------------|------------------|--|
| 1) Hydrochloric acid | 7647-01-0 | 30-40 | TWA: 5 (ppm) | ORAL (LD50) mg/kg: Acute: 900 (Rabbit). |

SECTION III - PHYSICAL DATA

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| Boiling point: 178(F) | Specific Gravity: 1.16 (Water = 1) |
| Vapour Pressure: Not available | Vapor Density: The highest known value is 1.3 (Air = 1) |
| Solubility in Water: Soluble | Percent Volatile: Not available. |
| Physical State: Liquid. | Evaporation Rate: Not available. |
| Appearance and Odour: Colorless to light yellow. Pungent. | pH (as supplied): 1.0 Viscosity: Water thin |

SECTION IV - FIRE AND EXPLOSION DATA

Flammability: Non-flammable.
Flash Points: Not applicable.
Flammable Limits: Not applicable.
Hazardous Combustion Products: Not applicable.
Means of Extinction: Use normal fire fighting procedures.
Special Fire Hazards: On contact with light metals, hydrogen gas released.

SECTION V - REACTIVITY DATA

Stability: The product is stable.
Incompatibility: Bases, chlorine compounds, oxidizers
Hazardous Decomposition Products: May react with metals to generate flammable hydrogen gas.

SECTION VI - TOXICOLOGICAL PROPERTIES

Routes of Entry Dermal contact. Eye contact. Inhalation. Ingestion.

Acute Effects on Humans: Severe skin, eye and respiratory irritant.

Chronic Effects on Humans: **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
Toxicity of the product to the reproductive system: Not available.
Effects of chronic exposure to product: None known

Synergistic Materials: Not available.

SECTION VII - PREVENTIVE MEASURES

Gloves: Gloves (impervious - rubber, neoprene, plastic)

Eye Protection: Splash goggles.

Respiratory Protection: Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. Wear appropriate respirator when ventilation is inadequate.

Other Protective Equipment: Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels.

Leak and Spill Procedure: 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.**
Corrosive liquid.
Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. **Neutralize the residue with a dilute solution of sodium carbonate.**

Waste Disposal: Recycle, if possible. Consult your local or regional authorities.

Storage Requirements: May corrode metallic surfaces. Store in a metallic or coated fibreboard drum using a strong polyethylene inner package. Corrosive materials should be stored in a separate safety storage cabinet or room.

SECTION VIII - FIRST AID

Eye: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.

Skin: If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Ingestion: DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

SECTION IX - OTHER INFORMATION

References Not available.

Additional remarks: No additional remark.

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| Validated by Technical Manager, Lawrason's Inc on 1/1/2015. | Verified by Lawrason's Inc. |
| | Printed 11/24/2015. |

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