

MATERIAL SAFETY DATA SHEET



MSDS ID: 1283



I - PRODUCT IDENTIFICATION AND USE

PRODUCT NAME: MURIATIC ACID

USE: Acid Descaling

SUPPLIER: **EMERGENCY PHONE:**

JohnsonDiversey Canada, Inc.

2401 Bristol Circle

Oakville Ontario, L6H 6P1, Canada

1-800-668-7171

WHMIS CLASSIFICATION: D1B E TRADE NAME / SYNONYMS: not applicable

CHEMICAL FAMILY: mineral acid **CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT LD50 / LC50 % w/w CAS# **Route / Species** Hydrochloric acid 15-40 007647-01-0 LD50 900 mg/kg oral/rab

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: neoprene or nitrile Eye: safety goggles Footwear: not required

If mists are generated, use NIOSH approved Respiratory: Other: rubber apron

SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Do not breathe mist, spray or vapours. Avoid eye and skin contact.

VENTILATION REQUIREMENTS: mechanical exhaust

INCOMPATIBILITY (Material to Avoid): Alkaline and chlorinated materials.

SPILL PROCEDURES: Contain the spill. Do not allow the spilled product to go to drain. Mop up or soak up with absorbent clay for disposal.

Wash spill area with large volumes of water. Ventilate area well. Neutralize with lime or soda ash.

WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.

STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. UN1789

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear, colourless liquid

S.G. / BULK DENSITY(g/cc): 1.16 pH: < 1.0

VAPOUR PRESSURE (mmHg): VAPOUR DENSITY (air=1): 1.3 (HCl gas) 24

ODOUR THRESHOLD: **BOILING POINT:** not available 100°C

FREEZING POINT: -40°C PERCENT VOLATILE:

SOLUBILITY IN WATER: soluble **EVAPORATION RATE (water=1):** not available

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES: Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly.

SKIN: Corrosive. May cause severe irritation. May cause temporary or permanent damage if not treated promptly.

INGESTION: Corrosive. May cause severe irritation of the digestive tract. Nausea, vomiting, diarrhea, circulatory collapse and death may occur.

INHALATION: May cause irritation of respiratory tract, coughing and choking. Inflammation and ulceration of respiratory tract may occur.

LC50 (calculated): LD50 (calculated): 900 mg/kg 1562 ppm/4H

OTHER TOXIC EFFECTS: Breathing vapours may cause delayed lung injury. TLV: 5 ppm (7 mg/m3) **EFFECTS OF CHRONIC** not available **EXPOSURE TO MATERIAL:** VI - FIRST AID MEASURES EYES: Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately. SKIN: Flush affected area thoroughly with water. If irritation develops, contact a physician. INGESTION: Drink large volumes of water . Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a physician immediately. INHALATION: Remove patient to fresh air. Get medical attention for any breathing difficulty. VII - FIRE AND EXPLOSION DATA FLAMMABLE: No. Will generate explosive hydrogen gas on contact with metals. FLASH POINT, °C: **AUTO IGNITION TEMPERATURE,°C:** not applicable N/Ap **EXTINGUISHING MEDIA:** Dry Chemical [x] Water [x] Carbon Dioxide [x] Foam [x] Other [] SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus. **HAZARDOUS COMBUSTION PRODUCTS:** Hydrogen chloride gas released when heated. Hydrogen gas released on contact with soft **EXPLOSIVE SENSITIVITY TO:** not applicable **VIII - REACTIVITY DATA** STABILITY: Stable [x] Unstable [] **CONDITIONS TO AVOID:** not applicable. Alkaline and chlorinated materials. Aluminum, brass, copper, iron, mild steel. Organic amines, INCOMPATIBILITY (Material to Avoid): oxides, and polymerizable monomers. **HAZARDOUS DECOMPOSITION PRODUCTS:** Contact with chlorinated materials will release chlorine gas. Contact with alkali will generate heat and release hydrogen chloride gas. Contact with soft metals forms flammable hydrogen gas. REACTIVITY: not dangerously reactive IX - MSDS PREPARATION SOURCES USED: RTECS, Cheminfo PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Food Division PREPARATION DATE: April 15, 2003 Phone (905) 829-1200 Information on this form is furnished in compliance with the Regulations respecting Controlled Products under the Hazardous Products Act and is not to be used for any other purpose, nor is it to be reproduced or published. JohnsonDiversey Canada assumes no responsibility for injury to any person or property resulting from any use of the material if reasonable safety procedures are not adhered to. In addition, JohnsonDiversey Canada assumes no responsibility for injury to any person or property resulting from any abnormal use or theft of the material, even if reasonable safety procedures are followed. Each user assumes the risk in his use of the material and should review the data and recommendations in the specific context of the intended use.