

VAN WATERS AND ROGERS INC -- MURIATIC ACID ALL GRADES

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MSDS Safety Information  
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FSC: 6810  
NIIN: 00-236-5665  
MSDS Date: 01/01/1998  
MSDS Num: CKPYZ  
Product ID: MURIATIC ACID ALL GRADES  
MFN: 01  
Responsible Party  
Cage: OSTM5  
Name: VAN WATERS AND ROGERS INC  
Address: 6100 CARILLON POINT  
City: KIRKLAND WA 98033-7357  
Info Phone Number: 425-889-3400 OR 425-889-3617  
Emergency Phone Number: 1-800-733-3665  
Resp. Party Other MSDS No.: M34514

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Item Description Information  
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Item Manager: S9G  
Item Name: HYDROCHLORIC ACID, TECHNICAL  
Specification Number: O-H-765  
Type/Grade/Class: NONE  
Unit of Issue: DR  
Quantitative Expression: 0000000005GL  
UI Container Qty: 5.0 GAL  
Type of Container: DRUM

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Ingredients  
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Cas: 7732-18-5  
RTECS #: ZC0110000  
Name: WATER  
% low Wt: 64.  
% high Wt: 91.

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Cas: 7647-01-0  
RTECS #: MW4025000  
Name: HYDROCHLORIC ACID  
% low Wt: 9.  
% high Wt: 36.  
OSHA PEL: C7 MG/M3;C5 PPM  
ACGIH TLV: NOT ESTABLISHED  
ACGIH STEL: C7.5 MG/M3;C5 PPM  
EPA Rpt Qty: 5000 LBS  
DOT Rpt Qty: 5000 LBS

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Health Hazards Data  
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LD50 LC50 Mixture: ACUTE ORAL (RABBIT) LD50: 900 MG/KG  
Route Of Entry Inds - Inhalation: YES  
Ingestion: YES  
Carcinogenicity Inds - NTP: NO  
IARC: NO  
OSHA: NO

Effects of Exposure: TARGET ORGANS:EYES, SKIN, RESPIRATORY TRACT,  
GASTROINTESTINAL TRACT. INHALATION:MAY RESULT IN COUGHING, BURNING OR  
CHOKING

SENSATION IN THE THROAT. IF INHALED DEEPLY, FLUID MAY COLLECT IN THE LUNGS.  
EYES:CONTACT RAPIDLY CAUSES SEVERE IRRITATION. IF NOT QUICKLY REMOVED BY  
THOROUGH IRRIGATION WITH WATER, THERE MAY BE PROLONGED/PERMANENT VISUAL  
IMPAIRMENT OR TOTAL LOSS OF SIGHT. HYDROGEN CHLORINE ESCAPING FROM THE  
AQUEOUS SOLUTION IS IMMEDIATELY IRRITATING. SKIN:CONTACT MAY CAUSE BURNS  
& TISSUE DESTRUCTION. INGESTION:CAN CAUSE SEVERE BURNS OF THE DIGESTIVE  
TRACT. REPEATED (CHRONIC) EXPOSURE: NONE KNOWN.

Explanation Of Carcinogenicity: NOT KNOWN TO BE CARCINOGENIC.

Signs And Symptoms Of Overexposure: COUGHING, BURNING, CHOKING, EDEMA,  
DISCOLORATION OF TEETH, IRRITATION, VISUAL IMPAIRMENT OR TOTAL LOSS OF  
SIGHT, TISSUE DESTRUCTION.

Medical Cond Aggravated By Exposure: PRE-EXISTING DISORDERS AFFECTING TARGET  
ORGANS.

First Aid: EYES: IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER FOR  
AT LEAST 15 MINUTES, FORCIBLY HOLDING EYELIDS APART TO ENSURE COMPLETE  
IRRIGATION OF ALL EYE AND LID TISSUE. WASHING EYES WITHIN SEVERAL SECONDS  
IS ESSENTIAL TO ACHIEVE MAXIMUM EFFECTIVENESS. GET MEDICAL ATTENTION  
IMMEDIATELY. SKIN: FLUSH THOROUGHLY WITH COOL WATER UNDER SHOWER WHILE  
REMOVING CONTAMINATED CLOTHING AND SHOES. DISCARD NON-RUBBER SHOES. DISCARD  
NON-RUBBER SHOES. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION AS  
SOON AS POSSIBLE.

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Handling and Disposal  
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Spill Release Procedures: EVACUATE UNNECESSARY PERSONNEL. KEEP UNPROTECTED  
PERSONNEL UPWIND OF THE SPILL AREA. FOLLOW PROTECTIVE MEASURES PROVIDED  
UNDER PERSONAL PROTECTION. CONTAIN SPILL WITH DIKE TO PREVENT ENTRY INTO  
SEWERS OR WATERWAYS. ACCORDING TO 40CFR302 TABLE 302.4 (CERCLA),  
ENVIRONMENTAL RELEASES THAT EXCEED THE RQ MUST BE REPORTED TO THE NATIONAL  
RESPONSE CENTER BY CALLING 1-800-424-8802.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER. DLA- STAFF: SODA ASH,  
SLAKED LIME, BAKING SODA.

Waste Disposal Methods: THE MATERIALS RESULTING FROM CLEAN-UP OPERATIONS MAY  
BE HAZARDOUS WASTES AND, THEREFORE, SUBJECT TO SPECIFIC REGULATIONS.  
PACKAGE, STORE, TRANSPORT, AND DISPOSE OF ALL (CLEAN-UP) MATERIALS AND ANY  
CONTAMINATED EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE,  
AND LOCAL REGULATIONS.

Handling And Storage Precautions: KEEP AWAY FROM SOURCES OF IGNITION BECAUSE  
TOXIC, CORROSIVE AND EXPLOSIVE GASES MAY BE FORMED. OPEN CONTAINER  
CAREFULLY TO AVOID SPURTING. STORE IN A COOL, VENTILATED AREA AWAY FROM  
INCOMPATIBLE MATERIALS. DIKE AND VENT STORAGE TANKS. DO NOT STORE IN  
UNLINED CONTAINERS.

Other Precautions: WEAR PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPOR,  
USE WITH ADEQUATE VENTILATION. WEAR NIOSH/MSHA APPROVED  
RESPIRATORY PROTECTION IF THERE IS POTENTIAL FOR EXPOSURE ABOVE THE EXPOSURE  
LIMIT. WASH THOROUGHLY AFTER HANDLING.

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Fire and Explosion Hazard Information  
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Lower Limits: NONFLAMMABLE

Upper Limits: NONFLAMMABLE

Extinguishing Media: NON-FLAMMABLE/NONBUSTIBLE. USE AGENTS APPROPRIATE FOR  
SURROUNDING FIRE. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

Fire Fighting Procedures: KEEP UNAUTHORIZED PERSONNEL REMOVED AND UPWIND.

WEAR NIOSH/MSHA APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard: THIS PRODUCT IS NONFLAMMABLE AND NONEXPLOSIVE UNDER NORMAL CONDITIONS OF USE. AT HIGH TEMPERATURES THIS PRODUCT CAN DECOMPOSE TO GIVE OFF HYDROCHLORIC ACID AND GAS. VAPORS ARE IRRITATING TO THE EYES AND NOSE. LIQUID IS CORROSIVE TO THE SKIN . THIS PRODUCT ATTACKS MOST METALS WITH THE EVOLUTION OF EXPLOSIVE HYDROGEN GAS.

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Control Measures  
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Respiratory Protection: WEAR A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, WHERE AIRBORNE CONTAMINANTS MAY OCCUR.

Ventilation: GENERAL ROOM VENTILATION PLUS LOCAL EXHAUST AT POINTS OF EMISSION TO MAINTAIN LEVELS OF AIRBORNE CONTAMINANTS BELOW EXPOSURE LIMITS.

Protective Gloves: WEAR CHEMICAL RESISTANT GLOVES SUCH AS RUBBER, NEOPRENE OR VINYL

Eye Protection: WEAR CHEMICAL SAFETY GOGGLES PLUS FULL FACE SHIELD TO PROTECT AGAINST SPLASHING

Other Protective Equipment: WHENEVER THERE IS A POSSIBILITY OF SPLASH OR CONTACT WEAR A CHEMICAL RESISTANT FULL BODY SUIT AND GLOVES. EMERGENCY SHOWER AND EYEWASH FACILITY SHOULD BE IN CLOSE PROXIMITY (ANSI Z358.1)

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health: NONE SPECIFIED BY MANUFACTURER.

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Physical/Chemical Properties  
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HCC: C1

Boiling Point: =60.C, 140.F

B.P. Text: 140-221F;60-105C

Vapor Pres: 14.6-80

Vapor Density: 1.3@20C

Spec Gravity: 1.05-1.18

PH: 0.2% SOLUTION=2

Solubility in Water: 100

Appearance and Odor: CLEAR TO LIGHT AMBER LIQUID WITH A PUNGENT ODOR.

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Reactivity Data  
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Stability Indicator: YES

Stability Condition To Avoid: HEAT, ALKALIS, METALS

Materials To Avoid: AVOID CONTACT WITH ALKALI METALS OR OTHER ACTIVE METALS AND CERTAIN OF THEIR COMPOUNDS. DO NOT ADD WATER DIRECTLY TO THE PRODUCT. THE PRODUCT MAY BE ADDED TO WATER WITH MIXING AND DILUTION.

Hazardous Decomposition Products: GENERATES TOXIC & IRRITATING GASES AT HIGH TEMPERATURES. REACTS WITH METALS WITH THE EVOLUTION OF HYDROGEN WHICH WHEN MIXED IN AIR MAY RESULT IN FIRE OR EXPLOSION IF IGNITED. CHLORINE GAS MAY BE RELEASE

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR.

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Toxicological Information  
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Toxicological Information: HYDROCHLORIC ACID, CAS# 7647-01-0: ACUTE ORAL LD50 (RABBIT): 900 MG.KG. ACUTE INHALATION LC50 (RAT, 1 HR): 3124 PPM.

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Ecological Information  
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MSDS Transport Information  
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Regulatory Information  
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Sara Title III Information: SARA TITLE III HAZARD CATAGORIES: ACUTE HEALTH-YES, REACTIVE HAZARD: YES, DELAYED HEALTH: NO; FIRE HAZARD: NO; SUDDEN RELEASE OF PRESSURE. SECTION 302: HYDROGEN CHLORIDE IN THE GAS PHASE IS CLASSIFIED AS AN EXTREMELY HAZARDOUS SUBSTANCE. THIS PRODUCT CONTAINS A TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III AND 40 CFR 372.

Federal Regulatory Information: TSCA: ALL COMPONENTS OF THIS PRODUCT THAT ARE REQUIRED TO BE ON THE TSCA INVENTORY ARE LISTED ON THE INVENTORY.

State Regulatory Information: HYDROCHLORIC ACID LISTED ON FOLLOWING STATE LISTS: PA ENVIRONMENTAL HAZARDOUS SUBSTANCE, NY HAZARDOUS SUBSTANCES, NJ SPECIAL HEALTH HAZARDOUS SUBSTANCE.

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Other Information  
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Other Information: HYDROCHLORIC LISTED ON FOLLOWING INTERNATIONAL LISTS: CANADIAN DOMESTIC SUBSTANCE LIST (DSL); PHILLIPINES INVENTORY (PICCS), EINECS.

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Transportation Information  
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Responsible Party Cage: 0STM5

Trans ID NO: 153912

Product ID: MURIATIC ACID ALL GRADES

MSDS Prepared Date: 01/01/1998

Review Date: 07/07/2000

MFN: 1

Net Unit Weight: 46 LBS

Multiple KIT Number: 0

Unit Of Issue: DR

Container QTY: 5.0 GAL

Type Of Container: DRUM

Additional Data: DOT PROPER SHIPPING NAME IS PER MSDS. ALL OTHERS ARE BEST GUESS BY DLA- STAFF.

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Detail DOT Information  
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DOT PSN Code: HJG

DOT Proper Shipping Name: HYDROCHLORIC ACID, SOLUTION

Hazard Class: 8

UN ID Num: UN1789

DOT Packaging Group: II

Label: CORROSIVE

Special Provision: A3, A6, B3, B15, N41, T9, T27

Non Bulk Pack: 202

Bulk Pack: 242

Max Qty Pass: 1 L

Max Qty Cargo: 30 L

Vessel Stow Req: C

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Detail IMO Information  
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IMO PSN Code: IEX  
IMO Proper Shipping Name: HYDROCHLORIC ACID  
IMDG Page Number: 8183  
UN Number: 1789  
UN Hazard Class: 8  
IMO Packaging Group: II/III  
Subsidiary Risk Label: -  
EMS Number: 8-03  
MED First Aid Guide NUM: 700

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Detail IATA Information  
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IATA PSN Code: NPG  
IATA UN ID Num: 1789  
IATA Proper Shipping Name: HYDROCHLORIC ACID  
IATA UN Class: 8  
IATA Label: CORROSIVE  
UN Packing Group: II  
Packing Note Passenger: 809  
Max Quant Pass: 1L  
Max Quant Cargo: 30L  
Packaging Note Cargo: 813  
Exceptions: A3

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Detail AFI Information  
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AFI PSN Code: NPG  
AFI Proper Shipping Name: HYDROCHLORIC ACID, SOLUTION  
AFI Hazard Class: 8  
AFI UN ID NUM: UN1789  
AFI Packing Group: II  
Special Provisions: P4, A3, A6, N41  
Back Pack Reference: A12.3

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HAZCOM Label  
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Product ID: MURIATIC ACID ALL GRADES  
Cage: 0STM5  
Company Name: VAN WATERS AND ROGERS INC  
Street: 6100 CARILLON POINT  
City: KIRKLAND WA  
Zipcode: 98033-7357  
Health Emergency Phone: 1-800-733-3665  
Label Required IND: Y  
Date Of Label Review: 07/07/2000  
Status Code: A  
Year Procured: 2000  
Origination Code: F  
Eye Protection IND: YES  
Skin Protection IND: YES  
Signal Word: WARNING  
Respiratory Protection IND: YES  
Health Hazard: Moderate  
Contact Hazard: Moderate  
Fire Hazard: None  
Reactivity Hazard: Slight  
Hazard And Precautions: TARGET ORGANS:EYES, SKIN, RESPIRATORY TRACT,

GASTROINTESTINAL TRACT. INHALATION:MAY RESULT IN COUGHING, BURNING OR CHOKING SENSATION IN THE THROAT. IF INHALED DEEPLY, FLUID MAY COLLECT IN THE LUNGS.EYES:CONTACT RAPIDLY CAUSES SEVERE IRRITATION. IF NOT QUICKLY REMOVED BY THOROUGH IRRIGATION WITH WATER, THERE MAY BE PROLONGED/PERMANENT VISUAL IMPAIRMENT OR TOTAL LOSS OF SIGHT. HYDROGEN CHLORINE ESCAPING FROM THE AQUEOUS SOLUTION IS IMMEDIATELY IRRITATING. SKIN:CONTACT MAY CAUSE BURNS & TISSUE DISTRUCTION. INGESTION:CAN CAUSE SEVERE BURNS OF THE DIGESTIVE TRACT. REPEATED (CHRONIC) EXPOSURE: NONE KNOWN.

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