

FOX VALLEY CHEMICAL COMPANY

5201 MANN DRIVE - P.O. BOX 129

RINGWOOD, IL. 60072

EFFECTIVE 10-94

REVISED 11-12-01

MATERIAL SAFETY DATA SHEET

9% LOW ACID BOWL CLEANER

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER: FOX VALLEY CHEMICAL
INFORMATION: 815-653-2660
EMERGENCY : 800-325-3699
PRODUCT CLASS: CLEANING COMPOUND LOW ACID
PRODUCT CODE : H123090
C.A.S. # : SEE BELOW

HAZARD RATINGS: 4-EXTREME
3-HIGH
2-MODERATE
1-SLIGHT
0-INSIGNIFICANT

FIRE-0 HEALTH-3 REACTIVE-0 SPECIAL-0

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS:	CAS#	WT%	EXPOSURE LIMIT ACGIH/TLV OSHA/PEL
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HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (MURATIC ACID) HYDROCHLORIC ACID CAS #007647 IS SUBJECT TO SARA TITLE III, SECTION 313, PART 372 REPORTING.	7647-01-0	6-15%	CEILING 5 ppm
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SECTION III - PHYSICAL DATA

BOILING POINT: 95 - 100 DGR. C.
pH: 1.0-2.0
SPECIFIC GRAVITY(WATER=1): 1.028 - 1.04
POUNDS PER GALLON: 8.57-8.678
VAPOR PRESSURE (MM HG): UNKNOWN
VAPOR DENSITY (AIR =1): HEAVIER THAN AIR
%VOLATILE BY VOLUME: 98%
SOLUBILITY IN WATER: COMPLETE
APPEARANCE & ODOR: RED CLEAR LIQUID
PUNGENT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASS:	FLASH POINT:	LEL:
	N/A	N/A

EXTINGUISHING MEDIA: USE WATER SPRAY, FOG, DRY CHEMICALS, CO2 OR OTHER AGENTS.
SPECIAL FIRE FIGHTING PROCEDURES: USE SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.
UNUSUAL FIRE & EXPLOSION HAZARDS: RELEASES HYDROGEN CHLORIDE GAS WHEN HEATED. FLAMMABLE AND POTENTIALLY EXPLOSIVE HYDROGEN GAS CAN BE GENERATED INSIDE METAL DRUMS AND STORAGE TANKS. PRODUCT WILL REACT WITH MOST ORGANIC

MATERIAL WITH THE EVOLUTION OF HEAT AND LARGE QUANTITIES OF DENSE, WHITE FUMES.

SECTION V - HEALTH HAZARD DATA

INHALATION: VAPORS CAN CAUSE SEVERE IRRITATION OF THE RESPIRATORY TRACT, CAUSING COUGHING AND BURNING SENSATIONS, BRONCHITIS AND PULMONARY EDEMA.

SKIN CONTACT: CAN CAUSE SEVERE IRRITATION AND BURNS UNLESS IMMEDIATELY WASHED OFF. REPEATED CONTACT WITH DILUTE SOLUTION MAY LEAD TO DERMATITIS AND PHOTO SENSITIZATION. CHRONIC EXPOSURE TO LOW CONCENTRATIONS CAN CAUSE EROSION OF THE TEETH, SKIN TENDERNESS, AND BLEEDING OF NOSE AND GUMS.

EYE CONTACT: MAY CAUSE SEVERE BURNS AND IRRITATION, IF NOT REMOVED BY THOROUGH IRRIGATION WITH WATER, THERE MAYBE PROLONGED PERMANENT VISUAL IMPAIRMENT OR TOTAL LOSS OF SIGHT

INGESTION: IF SWALLOWED, CAUSES SEVERE BURNS OF THE MUCOUS MEMBRANES OF THE MOUTH, ESOPHAGUS AND STOMACH. G.I. TRACT MAY PERFORATE IN EXTREME CASES. ASPHYXIA MAY OCCUR FROM EDEMA OF THE LARYNX. THE LIPS AND MOUTH USUALLY TURN WHITE, AND LATER BROWN. THERE IS PAIN IN THE THROAT AND STOMACH, DIFFICULTY IN SWALLOWING, INTENSE THIRST, NAUSEA AND VOMITING, FOLLOWED BY DIARRHEA, RESPIRATORY DISTRESS, KIDNEY INFLAMMATION, WEAKNESS FROM FALLING BLOOD PRESSURE, AND IN SEVERE CASES, COLLAPSE AND DEATH. ORAL LD (50) (RAT); 700mg/kg. SLIGHTLY TOXIC.

CHRONIC TOXICITY: EXPOSURE OF HYDROGEN CHLORIDE 100ppm FOR 6 HOURS A DAY FOR 50 DAYS CAUSED ONLY SLIGHT UNREST AND IRRITATION TO THE EYES AND NOSE OF RABBITS, GUINEA PIGS AND PIGEONS. THE HEMOGLOBIN CONTACT OF THE BLOOD WAS ALSO SLIGHTLY DIMINISHED. MONKEYS RECEIVING TWENTY EXPOSURES OF 33ppm FOR 6 HOURS DID NOT DISPLAY ANY ADVERSE EFFECTS. HIGHER EXPOSURES (UNSPECIFIED) HAVE CAUSED WEIGHT LOSS WHICH PARALLEL THE SEVERITY OF EXPOSURE. IN HUMANS, LONG TERM OVEREXPOSURE HAS BEEN ASSOCIATED WITH EROSION OF THE TEETH.

FIRST AID:

EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES, HOLDING EYE LIDS OPEN. DO NOT USE CHEMICAL ANTIDOTES. SPEED IS ESSENTIAL. CALL A PHYSICIAN IMMEDIATELY.

SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES, WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. DO NOT USE CHEMICAL ANTIDOTES. WASHING CLOTHING BEFORE REUSE, DESTROY CONTAMINATED SHOES. SPEED IS ESSENTIAL. CALL A PHYSICIAN.

INHALATION: REMOVE PERSON TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE

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ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED.
GET MEDICAL ATTENTION.

INGESTION: **DO NOT INDUCE VOMITING!** DRINK LARGE AMOUNTS OF WATER, MILK OR PREFERABLY A NON-GASSING NEUTRALIZER SUCH AS MILK OF MAGNESIA. DO NOT GIVE CARBONATES, BICARBONATES OF CHALK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN IMMEDIATELY.

OTHER INFORMATION: ***NOTE TO PHYSICIANS: THIS MATERIAL IS CORROSIVE TH THE INTESTINAL TRACT. IF SWALLOWED, GASTRIC LAVAGE SHOULD BE USED WITH EXTREME CAUTION. NOT LISTED AS CARCINOGENIC BY IARC, NTP OR OSHA.*** MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: ASTHMA, BRONCHITIS, EMPHYSEMA AND OTHER LUNG CONDITIONS AND CHRONIC NOSE, SINUS OR THROAT CONDITIONS. EXPOSURE MAY AGGRAVATE EXISTING SKIN AND/OR EYE CONDITIONS ON CONTACT.

PRIMARY ROUTE OF EXPOSURE: INHALATION AND SKIN MUTAGENIC EFFECT (HYDROGEN CHLORIDE):

CHROMOSOME DAMAGE, INHALATION: 100 ppm - 24HR.

ORAL: 100 ppm CYTOGENIC EFFECT

PARENTERAL: 20mg

SECTION VI - REACTIVITY DATA

STABILITY: (X) UNSTABLE () STABLE

HAZARDOUS POLYMERIZATION:

() MAY OCCUR (X) WILL NOT OCCUR

INCOMPATIBILITY: MOST METALS, ALKALIS, METALLIC OXIDES, AMINES, STRONG OXIDANTS, INCLUDING FLOURINE; VINYL ACETATE, PROPIOLACTONE (BETA), PROPYLENE OXIDE. ALSO WATER REACTIVE MATERIALS SUCH AS CONCENTRATED SULFURIC ACID, OLEUM AND ACETIC ANHYDRIDE. ALSO CARBONATES, CYANIDES, AND SULFIDES IN CONTACT WITH THIS ACIT LIBERATE TOXIC GASES. STORE ONLY IN ACID-PROOF CONTAINERS, I.E. RUBBER LINED STEEL, GLASS OR PLASTIC. DO NOT STORE NEAR STRONG BASES OR OTHER REACTIVE MATERIALS, INCLUDING METALS, MERCURIC SULFATE, PRECHLORIC ACID, CARBIDES OF CALCIUM, CESIUM, RUBIDIUM, ACETYLIDES OF CESIUM AND RUBIDIUM, PHOSPHIDES OF CALCIUM AND URANIUM, AND LITHIUM SILICIDE. REACTS WITH ZEOLITES AND OTHER SILICIOUS MATERIALS TO FORM HYDROSILIC ACID.

CONDITIONS TO AVOID: KEEP CONTAINERS CLOSED.

HAZARDOUS DECOMPOSITION PRODUCTS: HCL

EVOLUTION ACCELERATED BY HEATING OR CONTACT WITH WATER-REACTIVE MATERIALS SUCH AS CONCENTRATED SULFURIC ACID. REACTIONS WITH METALS CAN RELEASE FLAMMABLE HYDROGEN GAS.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR PROTECTIVE CLOTHING. SMALL SPILL: CONTAIN, COVER SMALL SPILLS WITH SODA ASH OR SLAKED LIME. FLUSH THE NEUTRALIZED MATERIAL TO SEWER WITH MUCH WATER. BEFORE FLUSHING RESIDUE AND/OR PRODUCT INTO LOCAL SEWER SYSTEM, CHECK

pH OF ACCEPTABLE EFFLUENT WATER IN ACCORDANCE WITH LOCAL WATER TREATMENT PLANT. LARGE SPILLS: KEEP PEOPLE AWAY. SHUT OFF AND EXTINGUISH ALL SOURCES OF IGNITION. KEEP UPWIND. SHUT OFF LEAK IF WITHOUT RISK. IF NECESSARY TO ENTER SPILL AREA, WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING INCLUDING BOOTS. DIKE WITH SAND OR EARTH AND PUMP INTO SALVAGE TANK. FLUSH SPILL AREA WITH WATER AND NEUTRALIZE WASHING WITH LIME OR SODA ASH. RUN OFF TO SEWERS MAY CREATE HEALTH AND EXPLOSION HAZARDS: NOTIFY FIRE AND HEALTH CONTROL AUTHORITIES. KEEP OUT OF WATERSHEDS AND WATERWAYS. IF NOT POSSIBLE, NOTIFY POLLUTION CONTROL AUTHORITIES. WASTE DISPOSAL METHOD: FLUSH LARGE SPILLS WITH WATER TO HOLDING AREA AND NEUTRALIZE WITH SODA ASH OR LIME. FLUSHING NEUTRALIZED MATERIAL TO SEWER DEPENDS ON ALLOWABLE SALT CONCENTRATIONS IN EFFLUENT WATER. FOLLOW LOCAL, STATE AND FEDERAL REGULATIONS. COVER SMALL SPILLS WITH SODA ASH OR LIME. FLUSH NEUTRALIZED MATERIAL TO THE SEWER WITH MUCH WATER. IF NOT NEUTRALIZED THIS PRODUCT CAN BECOME A HAZARDOUS WASTE AS DESIGNATED BY THE EPA UNDER AUTHORITY OF THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA). THE WASTE WOULD HAVE RCRA HAZARDOUS WASTE NUMBER D002 (CORROSIVE) AS DESIGNATED IN 40 CFR PART 261.22 REPORTABLE QUANTITY UNDER U.S. EPA CERCLA REGULATIONS; HYDROCHLORIC ACID 5000 LBS. FEDERAL, STATE AND LOCAL REGULATIONS SHOULD BE FOLLOWED IN DISPOSING OF THIS SUBSTANCE.

AQUATIC TOXICITY: 282ppm - 96HR (MOSQUITO TO FISH)

TLM/FRESH WATER 100-300ppm - 48 HR (SHRIMP)

LD (50) SALT WATER

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: UNDER NORMAL USE CONDITIONS NONE SHOULD BE NECESSARY. USE NIOSH/MSHA APPROVED RESPIRATOR IF AIRBORNE EXPOSURE IS EXCESSIVE.

VENTILATION: PROVIDE GOOD GENERAL ROOM VENTILATION TO MINIMIZE EXPOSURE.

PROTECTIVE GLOVES: USE RUBBER GLOVES

EYE PROTECTION: WEAR SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES. DO NOT WEAR CONTACT LENSES WHEN WORKING WITH THIS PRODUCT. OTHER PROTECTIVE EQUIPMENT: APRON IF SPLASHING IS LIKELY.

ADDITIONAL PROTECTIVE MEASURES: EYEBATH, SAFETY SHOWER OR ABUNDANT RUNNING WATER. WASH THOROUGHLY AFTER HANDLING. EMPTY CONTAINERS CONTAIN PRODUCT RESIDUE, OBSERVE ALL WARNINGS. TRIPLE RINSE BEFORE DISPOSING OF CONTAINERS.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: **KEEP OUT OF REACH OF CHILDREN!!** KEEP CONTAINERS

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CLOSED WHEN NOT IN USE. STORE IN OPEN OR WELL VENTILATED AREAS. KEEP OUT OF SUN. AREA SHOULD HAVE ACID RESISTANT FLOOR AND APPROVED DRAINAGE. KEEP AWAY FROM OXIDIZING AGENTS AND ALKALINE MATERIALS AND THE OTHER INCOMPATIBLE PRODUCTS LISTED IN SECTION VII. PROTECT CONTAINERS FROM DAMAGE OR BREAKING. USE NON-SPARKING TOOLS AND PROHIBIT SMOKING IN AREAS AROUND TANKS AND PIPES WHERE HYDROGEN MIGHT BE GENERATED. MINIMIZE SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. SAFETY SHOWER, EYE BATH AND WASHING FACILITIES SHOULD BE AVAILABLE.

SHIPPING INFORMATION:

DOT SHIPPING NAME:

DOT HAZARD CLASS:

DOT LABELS REQUIRED:

FREIGHT DESCRIPTION:

OTHER PRECAUTIONS:

***DISCLAIMER OF LIABILITY-

THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. ALL CHEMICALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS WHICH EXIST. FINAL DETERMINATION OF SUITABILITY OF THE CHEMICAL IS THE SOLE RESPONSIBILITY OF THE USER. USERS OF ANY CHEMICAL SHOULD SATISFY THEMSELVES THAT THE CONDITIONS AND METHODS OF USE ASSURE THAT THE CHEMICAL IS USED SAFELY. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. NOTHING CONTAINED HEREIN IS TO BE CONSTRUED AS A RECOMMENDATION FOR USE IN VIOLATION OF ANY PATENTS OR OF APPLICABLE LAWS OR REGULATIONS.