

MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

HMIS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

A = Safety Glasses
B = A + Gloves
C = B + Apron
D = C + Face Shield
E = B + Dust Mask

F = C + Dust Mask
G = B + Respirator
H = F + Goggles
I = B + Respirator
X = Ask Supervisor

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

Health.... 3
Flammability.... 1
Physical Hazard.... 0
Protection.... C

SECTION I - PRODUCT IDENTIFICATION

Product Supersedes date: December 18, 2008

Section(s) changed: I

Effective date: February 3, 2009

PRODUCT NAME: 3X SR3

GENERIC NAME: Acidic Scale Remover

SUPPLIER : DirectLine Ind.

INFORMATION PHONE NUMBER: 1-866-773-6136

EMERGENCY PHONE NUMBER IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE OR ACCIDENT: 1-800-255-3924 Chem-Tel

PROPER SHIPPING DESCRIPTION:

> 1 Gal.: Corrosive liquid, acidic, inorganic, n.o.s., (Contains hydrochloric acid), 8, UN3264, III

LABEL: Corrosive

≤ 1 Gal.: Corrosive liquid, acidic, inorganic, n.o.s., (Contains hydrochloric acid), LTD. QTY., 8, UN3264, III

LABEL: None

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS No.	Wt%	OSHA PEL	ACGIH TLV	OTHER
Hydrochloric Acid	7647-01-0	<25	5 ppm	5 ppm	

The information & recommendations set forth herein are presented in good faith & believed to be current & reliable. The manufacturer makes no representation as to the completeness or accuracy thereof & supplies information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will the manufacturer be responsible for any damage of any nature whatsoever resulting from the use of or reliance upon this information. No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which it refers.

SECTION III - PHYSICAL/CHEMICAL DATA

Boiling Point (°F): 212
Vapor Pressure (mm Hg): 17
Vapor Density (Air=1): 0.62
Evaporation Rate: (Water=1): GT 1.00
Solubility in Water: Complete
Physical Description: Thick Brown Liquid
Acid Odor

Specific Gravity: 1.06
Lbs/Gal Density: 8.85
pH Concentrate: 1
pH Use Dilution: 1

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (Method Used): None LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA: Water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.
SPECIAL FIRE FIGHTING PROCEDURES: Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH Approved or equivalent to maintain TLV.
UNUSUAL FIRE & EXPLOSION HAZARD: Use water spray to cool adjacent fire exposed containers. Product will not burn, but reacts with common metals to evolve hydrogen gas which may cause fire or explosion.

SECTION V - REACTIVITY DATA

Stability: Stable.
Hazardous Polymerization: Will not occur.
Incompatibility (Materials to Avoid): Strong alkalies, metals.
Hazardous Decomposition Products: If burned, normal combustion products:
Carbon Dioxide, Carbon Monoxide, Nitrous Oxides, Hydrogen Gas.

SECTION VI - STORAGE & HANDLING INFORMATION

KEEP OUT OF REACH OF CHILDREN. DANGER.
Avoid all contact. Store upright in original closed container.
Other Precautions: Do not get in eyes, on skin or on clothing. Remove & wash contaminated clothing before reuse.

SECTION VII - HEALTH HAZARDS AND FIRST AID

Carcinogenicity: NE	NTP? NE	IARC Monographs? NE	OSHA REGULATED? YES
EFFECTS OF OVEREXPOSURE:	EMERGENCY FIRST AID PROCEDURES:		
SKIN: Severe burns.	SKIN: Wash with soap & water for 15 minutes. See physician if burning persists.		
EYES: Severe burns.	EYES: Flush with flowing water for 15 minutes & see physician.		
INHALATION: Severe burns.	INHALATION: Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.		
INGESTION: Severe burns.	INGESTION: Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.		

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: (Specify type) Normal room ventilation.
VENTILATION: Local exhaust preferred. Mechanical (general) acceptable. Avoid breathing vapor or spray.
PROTECTIVE GLOVES: Acid proof.
EYE PROTECTION: Splash proof chemical goggles.
OTHER PROTECTIVE EQUIPMENT: Apron. Eye wash facilities. Safety Shower.
WORK/HYGIENIC PRACTICES: Practice good personal hygiene. Wash after handling.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Mop up & flush to sewer with plenty of water. Floors may be slippery. Use care to avoid falls.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable Federal, State & Local regulations.

SECTION X - ADDITIONAL FEDERAL REGULATIONS

SARA TITLE III (EPCRA) NOTIFICATION: HYDROCHLORIC ACID [Reportable under section 313 and section 6607 of the Pollution Prevention Act]
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION: HYDROCHLORIC ACID
For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

NE - Not Established NA - Not Applicable GT - Greater Than