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E M SCIENCE DIV OF E M INDUSTRIES INC -- HYDROXYLAMINE HYDROCHLORIDE,HX  
(0770,0775,0780),4616,4619 -- 6810-00-262-8577

===== Product Identification =====

Product ID:HYDROXYLAMINE HYDROCHLORIDE,HX (0770,0775,0780),4616,4619

MSDS Date:10/04/1993

FSC:6810

NIIN:00-262-8577

MSDS Number: CGLRP

=== Responsible Party ===

Company Name:E M SCIENCE DIV OF E M INDUSTRIES INC

Address:480 DEMOCRAT ROAD

Box:70

C

City:GIBBSTOWN

State:NJ

ZIP:08027-0070

Country:US

Info Phone Num:609-423-6300/800-222-0342

Emergency Phone Num:609-423-6300/800-424-9300(CHEMTREC)

CAGE:63612

=== Contractor Identification ===

Company Name:E M SCIENCE DIV OF E M INDUSTRIES INC

Address:480 DEMOCRAT ROAD

Box:70

City:GIBBSTOWN

State:NJ

ZIP:08027

Country:US

Phone:800-222-0342/609-423-6300

CAGE:63612

Company Name:SIGMA TECH ENTERPRISES INC

Address:90 GLEN WAY SUITE 16

Box:City:SAN CARLOS

State:CA

ZIP:94070

Country:US

Phone:415-591-2510

CAGE:04KF9

===== Composition/Information on Ingredients =====

Ingred Name:HYDROXYLAMINE HYDROCHLORIDE

CAS:5470-11-1

RTECS #:NC3675000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL, MUS) 408 MG/KG.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY

AND GASTROINTESTINAL TRACTS. ACUTE- CORROSIVE. EXTREMELY IRRITATING ON CONTACT WITH EYES, SKIN OR MUCOUS MEMBRANES. MAY CAUSE BURNS. HARMFUL IF INHALED OR INGESTED. DUST IRRITATING. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SEVERE IRRITATION, TEARING, PAIN, NAUSEA, VOMITING, DIARRHEA, COUGH, BURNS

===== First Aid Measures =====

First Aid:GET MEDICAL ATTENTION. EYES/SKIN:IMMEDIATELY FLUSH WITH WATER

FOR 15 MINUTES. HOLD EYELIDS OPEN. INHALED:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS, INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL.

===== Fire Fighting Measures =====

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, SAND, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING

G AND NIOSH-APPROVED  
SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION  
PRODUCTS MAY BE FORMED.

Unusual Fire/Explosion Hazard:HIGHLY TOXIC FUMES

===== Accidental Release Measures =====

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA.  
REMOVE IGNITION SOURCES (HYDROGEN MAY BE PRESENT). CAREFULLY SWEEP  
UP SPILLED MATERIAL. PLACE IN A SUITABLE CONTAINER FOR REUSE OR  
DISPOSAL. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL

CONTAMINATION.  
Neutralizing Agent:SODA ASH, SODIUM BICARBONATE

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL, DRY PLACE AWAY FROM  
INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF  
CHILDREN. USE IN FUME HOOD/WELL VENTILATED AREA.  
Other Precautions:CAUTION! CORROSIVE. AVOID BREATHING DUSTS. DO NOT GET  
IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND  
BEFORE EATING OR DRINKING  
G. REMOVE CONTAMINATED CLOTHING PROMPTLY.  
LAUNDRY BEFORE REUSE.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE  
CONCENTRATIONS TO AN ACCEPTABLE LEVEL, USE A NIOSH-APPROVED DUST  
RESPIRATOR.  
Ventilation:GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES/HR)  
SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS  
Protective Gloves:RUBBER  
Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS/GOGGLES  
Other Protective Equipment:EYE BATH, SAFETY SHOWER, WASHING FACILITIES  
Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES.  
Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:C1  
NRC/State Lic Num:NOT RELEVANT  
Melt/Freeze Pt:M.P/F.P Text:315F,157C  
Spec Gravity:1.67  
Viscosity:NOT RELEVANT  
Evaporation Rate & Reference:NOT RELEVANT  
Solubility in Water:SOLUBLE  
Appearance and Odor:COLOR

LESS, ODORLESS, HYGROSCOPIC CRYSTALS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

BASES, OXIDIZERS

Stability Condition to Avoid: HEAT, MOISTURE, FLAME

Hazardous Decomposition Products: AMMONIA, HYDROCHLORIC ACID

===== Disposal Considerations =====

Waste Disposal Methods: DISCHARGE, TREATMENT OR DISPOSAL IS SUBJECT TO  
FEDERAL, STATE OR LOCAL REGULATIONS. SINCE EMPTIED CONTAINERS  
RETAIN PRODU

CT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER  
IS EMPTIED. EPA WASTE NUMBER: D002

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