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POLY RESEARCH CORPORATION -- AMMONIUM HYDROXIDE, ZINC OXIDE -- 6810-01-386-5562

Product ID:AMMONIUM HYDROXIDE,ZINC OXIDE

MSDS Date:04/05/1993

FSC:6810

NIIN:01-386-5562

MSDS Number: CCVVN === Responsible Party ===

Company Name: POLY RESEARCH CORPORATION

Address:125 CORPORATE DRIVE

City:HOLTSVILLE

State:NY ZIP:11742 Country:US

Info Phone Num:516-758-0460

Emergency P

hone Num:516-758-0460

Chemtrec Ind/Phone:(800)424-9300

CAGE:64713

=== Contractor Identification ===

Company Name: POLY RESEARCH CORPORATION

Address:125 CORPORATE DRIVE

Box:City:HOLTSVILLE

State:NY

ZIP:11742-2007 Country:US

Phone:516-758-0460

CAGE:64713

Company Name: POLY SCIENTIFIC R&D CORP.

Address:70 CLEVELAND AVE

Box:City:BAY SHORE

State:NY ZIP:11706 Country:US

Phone:516-586-0400

CAGE:67458

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

Ingred Name: AMMONIUM HYDROXIDE (CE

RCLA)

CAS:1336-21-6

RTECS #:BQ9625000 Fraction by Wt: 28 - 30%

Other REC Limits: NONE RECOMMENDED

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: ZINC OXIDE (SARA 313) (CERCLA)

CAS:1314-13-2 RTECS #:ZH4810000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9596

LD50 LC50 Mixture:LD50 (ORAL RAT) 350 MG/KG (RTECS, NH3)

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 & GI TRACTS. ACUTE- CORROSIVE. MAY CAUSE SEVERE EYE IRRITATION, EYE DAMAGE, BLINDNESS. CONTACT WITH SKIN MAY CAUSE SEVERE IRRITATION/BURNS. INHALATION MAY CAUSE S EVERE IRRITATION/BURNS OF RESPIRATORY SYSTEM, LUNG INFLAMMATION. INGESTION MAY BE FATAL. CAUSES BURNS. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

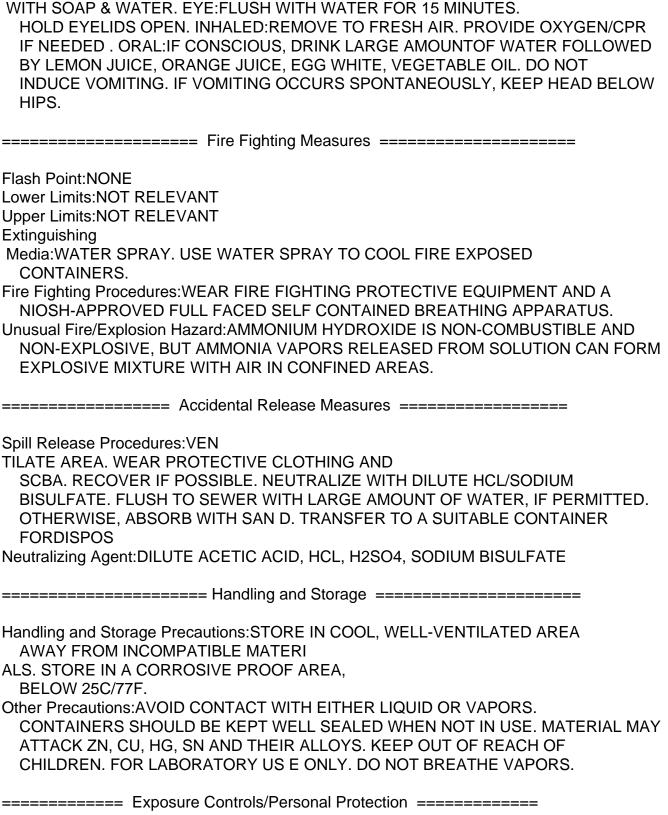
Effects of Overexposure: SEVERE IRRITATION, SEVE

RE BURNS, TEARING,

SEVERE COUGHING, DESTRUCTION OF TISSUE ON ANY EXPOSED PART OF THE BODY, CHEST PAIN, NAUSEA, VOMITING, DIFFICULT BREATHING, DEATH, BLINDNESS

Medical Cond Aggravated by Exposure:PRE-EXISTING EYE DISORDERS, SKIN DISORDERS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

First Aid:GET MEDICAL ATTENTION IMMEDIATELY. SKIN:FLUSH WITH WATER, THEN WASH



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

Respiratory Protection: WORK IN FUME HOOD OR WEAR A NIOSH-APPROVED RESPIRATOR WITH AMMONIA CANISTER, IF NEED

ED.
Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP FUME OR

Protective Gloves: RUBBER

Eye Protection: CHEMICAL GOGGLES AND FACE SHIELD

VAPOR LEVELS AS LOW AS POSSIBLE.

Other Protective Equipment: USE RUBBER SPLASH APRON. SAFETY SHOWER AND EYEWASH FOUNTAIN SHOULD BE LOCATED NEARBY.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING AND AFTER HANDLING.

Supplemental Safety and Health

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

HCC:B1

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=28.3C, 83.F

Melt/Freeze Pt:=-77.8C, -108.F

Vapor Pres:720 @ 80F

Vapor Density:1.2

Spec Gravity:0.90

pH:ALKALI

Solubility in Water:MISCIBLE

Appearance and Odor:LIQUID WITH STRONG ACRID SUFFOCATING ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, STRONG OXIDIZING AGENTS, FOOD PRODUC

TS, DIMETHYL SULFATE,

BRASS, BRONZ

Stability Condition to Avoid: EXCESSIVE HEAT

Hazardous Decomposition Products: AMMONIA GAS AND NITROGEN OXIDES MAY BE FORMED.

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

Waste Disposal Methods:DISPOE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. CAREFULLY NEUTRALIZE WITH SODIUM BISULFATE AND FLUSH TO SEWER WITH LARGE AMOUNT OF WATER, IF PERMITTED.

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