

COLUMBUS CHEMICAL INDUSTRIES INC -- AMMONIUM HYDROXIDE -- 6810-00-243-4436

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Product Identification  
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Product ID:AMMONIUM HYDROXIDE

MSDS Date:04/06/1989

FSC:6810

NIIN:00-243-4436

MSDS Number: BKMWV

=== Responsible Party ===

Company Name:COLUMBUS CHEMICAL INDUSTRIES INC

Address:N 4335 TEMKIN RD

City:COLUMBUS

State:WI

ZIP:53925

Country:US

Info Phone Num:414-623-2140

Emergency Phone Num:414-6

23-2140/CHEMTREC 800-424-9300

CAGE:5Y144

=== Contractor Identification ===

Company Name:COLUMBUS CHEMICAL INDUSTRIES INC

Address:N 4335 TEMKIN RD

Box:8

City:COLUMBUS

State:WI

ZIP:53925-0008

Country:US

Phone:920-623-2140

CAGE:5Y144

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Composition/Information on Ingredients  
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Ingred Name:AMMONIUM HYDROXIDE (SARA III)

CAS:1336-21-6

RTECS #:BQ9625000

Fraction by Wt: 58%

Other REC Limits:NONE SPECIFIED

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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Hazard  
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s Identification =====

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 350 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION MAY CAUSE COUGHING,SORE THROAT AND LABORED BREATHING.INGESTION MAY CAUSE PAIN IN THE MOUTH,CHEST & ABDOMEN WITH COUGHING,VOMITING AND COLLAPSE.VAPORS MAY CAUSE SKIN BURNS WITH VESICATION.EYE CONTACT MAY CAUSE PAIN AND

IRIS ATROPHY AND CATARACTS.

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

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

First Aid:SEEK MEDICAL CARE.EYES AND SKIN:FLUSH WITH LARGE AMOUNT OF WATER FOR ABOUT 15-20 MINUTES.INHALATION:REMOVE TO FRESH AIR.GIVE CPR/OXYGEN IF NEEDED.INGESTION:GIVE SEVERAL GLASSES OF WATER TO DRINK TO DILUTE.VOMITING

MAY OCCUR SPONTANEOUSLY,BUT DO NOT INDUCE.

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

Autoignition Temp:Autoignition Temp Text:1204F

Lower Limits:16

Upper Limits:27

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.USE WATER TO FLUSH NON-IGNITED SPILLS/VAPORS AWAY FROM FIRE.

Fire Fighting Procedures:USE NIOSH-APPROVED SCBA & FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND/OTHER POSITIVE PRESSURE MODE.USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

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

Spill Release Procedures:VENTILATE & EVACUATE AREA.USE PROTECTIVE CLOTHING & RESPIRATORS.SPILLS MAY BE NEUTRALIZED BY DILUTE HCL/H2SO4 & DISCHARGED TO SEWER WITH LARGE AMOUNT OF WATER.DON'T FLUSH DIRECTLY TO SEWERS.ALTERNATIVELY,SPILLS MAY BE ABSORBED WITH DRY INERT MATERIAL

Neutralizing Agent:DILUTE HCL O

R H2SO4

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Handling and Storage  
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Handling and Storage Precautions:STORE IN COOL, DRY & VENTILATED  
AREA.KEEP CONTAINER TIGHTLY CLOSED.PROTECT FROM DIRECT SUNLIGHT.  
Other Precautions:WASH THOROUGHLY AFTER EACH USE.

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Exposure Controls/Personal Protection  
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Respiratory Protection:USE A DUST/MIST RESPIRATOR WITH CHEMICAL GOGGLES  
IF THE TLV IS EXCEEDED.ALTERNATIVELY, A SUPPLIED AIR FULL FACEPIECE  
RESPIRATOR OR AIRLINE  
D HOOD MAY BE WORN.

Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES/GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHINGS.EYE-WASH  
FACILITIES,SAFETY SHOWER.

Work Hygienic Practices:AVOID CONTACT WITH EYES AND SKIN;DO NOT BREATHE  
VAPORS/MIST/DUST.WASH THOROUGHLY AFTER EACH USE;DO NOT  
EAT,DRINK,SMOKE.

Supplemental Safety and Health

FORMULA CHANGED. TO CHECK THE PREVIOUS FORMULA, SEE P/N A SAME NSN.

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Physical/Chemical Properties  
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HCC:G6

Boiling Pt:B.P. Text:97.0F,36.1C

Melt/Freeze Pt:M.P/F.P Text:-98F,-72C

Vapor Pres:115 @ 68F

Vapor Density:1.2

Spec Gravity:0.9

Solubility in Water:INFINITE

Appearance and Odor:CLEAR,COLORLESS SOLUTION, AMMONIA ODOR

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES

ACIDS,ACROLEIN,DIMETHYL SULFATE,HALOGENS,SILVER NITRATE,PROPYLENE  
OXIDE,NITROMETHANE,SILVER OXIDES/PERMANGANATE,OLEUM.

Stability Condition to Avoid:HIGH TEMPERATURES AND OPEN FLAMES  
Hazardous Decomposition Products:EMITS TOXIC FUMES OF AMMONIA AND  
NITRIC OXIDES WHEN HEATED TO DECOMPOSITION.

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

Waste Disposal Methods:CONSULT LOCAL AUTHORITIES;DISPOSAL MUST BE IN  
ACCORDANCE WITH LOCAL,STATE AND FEDERAL REGULATIONS

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