

SPECTRUM CHEMICAL MFG CORP. -- A5110 AMMONIUM HYDROXIDE -- 6810-00-243-4436

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

Product ID:A5110 AMMONIUM HYDROXIDE

MSDS Date:12/17/1996

FSC:6810

NIIN:00-243-4436

Status Code:A

MSDS Number: CJDGD

=== Responsible Party ===

Company Name:SPECTRUM CHEMICAL MFG CORP.

Address:14422 SOUTH SAN PEDRO STREET

City:GARDENA

State:CA

ZIP:90248-2027

Country:US

Info Phone Num:310-51

6-8000

Emergency Phone Num:310-516-8000

Resp. Party Other MSDS Num.:A5110

Preparer's Name:E. BRULL

Chemtec Ind/Phone:(800)424-9300

CAGE:63415

=== Contractor Identification ===

Company Name:INDUSTRIAL CHEMICAL COMMODITIES INC

Address:15944 DERWOOD RD

Box:City:ROCKVILLE

State:MD

ZIP:20855

Country:US

Phone:800-284-5279

CAGE:1ELU0

Company Name:SPECTRUM LABORATORY PRODUCTS INC

Address:14422 S SAN PEDRO ST

Box:City:GARDENA

State:CA

ZIP:90248-2027

Country:US

Phone:310-516-8000/FAX: 310-516-9843

Contra

ct Num:SP0450-99-M-NF70
CAGE:63415
Company Name:SPECTRUM LABORATORY PRODUCTS INC
Address:14422 S SAN PEDRO ST
Box:City:GARDENA
State:CA
ZIP:90248-2027
Country:US
Phone:310-516-8000/FAX: 310-516-9843
Contract Num:SP045099MC176
CAGE:63415

Company Name:TELECHEM INTERNATIONAL, INC
Address:524 E WEDDELL DRIVE SUITE 3
Box:City:SUNNYVALE
State:CA
ZIP:94089-2115
Country:US
Phone:916-941-3688
CAGE:1KH20

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

Ingred Name:AMMONIUM HYDROXIDE
CAS:1336-21-6
RTECS #:BQ9625000
= Wt:100.
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:ORAL LD50:350MG/KG (RAT)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: EXTREMELY DANGEROUS IN CASE OF
EYE CONTACT (IRRITANT). VERY DANGEROUS IN CASE OF SKIN CONTACT
(IRRITANT), OF INGESTION, OF INHALATION. SLIGHTLY
DANGEROUS TO
DANGEROUS IN CASE OF SKIN CONTACT (CORROSIVE). VERY SLIGHTLY TO
SLIGHTLY DANGEROUS IN CASE OF SKIN CONTACT (PERMEATOR). LIQUID OR
SPRAY MIST MAY PRODUCE TISSUE DAMAGE PARTICULARLY ON MUCOUS
MEMBRANES OF EYE, MOUTH & RESPIRATORY TRACT. MAY BE FATAL IF
INHALED OR INGESTED. CHRONIC: REPEATED OR PROLONGED EXPOSURES TO THE
SUBSTANCE CAN PRODUCE TARGET ORGANS DAMAGE. REPEATED OR PROLONGED
CONTACT WITH SPRAY MIST MAY PRODUCE CHRONIC EYE IRRITATION &
SEVER

E SKIN IRRITATION.

Explanation of Carcinogenicity:CARCINOGENIC EFFECTS: NOT AVAILABLE.

Effects of Overexposure:SKIN CONTACT MAY PRODUCE BURNS. INHALATION OF THE SPRAY MIST MAY PRODUCE SEVERE IRRITATION OF RESPIRATORY TRACT, CHARACTERIZED BY COUGHING, CHOKING, OR SHORTNESS OF BREATH. SEVERE OVER-EXPOSURE CAN RE SULT IN DEATH. THIS PRODUCT MAY IRRITATEEYES AND SKIN UPON CONTACT. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING, AND ITCHING. SKIN INFLAMMATION IS CHA RACTERIZED BY ITCHING, SCALING, REDDENING, OR OCCASIONALLY, BLISTERING.

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

First Aid:EYE-CHECK/REMOVE CONTACT LENS. IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MIN, KEEP EYELIDS OPEN. SEEK MEDICAL AID. SKIN-REMOVE CONTAMINATED CLOTHING QUICKLY. PLACE VICTIM UNDER DELUGE SHOWER. IF CHEMIC AL TOUCHES EXPOSED SKIN (HANDS), NEUTRALIZE WITH DILUTE SOLUTION OF BORIC ACID OR ACETIC ACID. GENTLY & THOROUGHLY WASH S KIN WITH WATER & NONABRASIVE SOAP. MAY USE COLD WATER. IF IRRITATION PERSISTS, SEEK MEDICAL AID. INHALATION-ALLOW THE VICTIM TO REST IN A WELL VENTILATED AREA. SEEK IMMEDIATE MEDICAL AID. INGESTION-DO NOT INDUCE VOMITING. HAVE CONSCIOUS PERSON DRINK SEVERAL GLASSES OF WATER OR MILK. SEEK IMMEDIATE MEDICAL AID.

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

Extinguishing Media:NON-FLAMMABLE.
Fire Fighting Procedures:NON-FLAMMABLE.
Unusual Fire/Explosion

Hazard:NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATABASE REGARDING THE PRODUCT'S RISK OF EXPLOSION IN THE PRESENCE OF VARIOUS MATERIALS.

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

Spill Release Procedures:DILUTE WITH WATER & MOP UP, OR ABSORB WITH AN INERT DRY MATERIAL & PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. IF NECESSARY: NEUTRALIZE THE RESIDUE WITH A DILUTE SOLUTION OF ACETIC ACID.
Neutralizing Agent:DILUTE SOLUTION OF ACETIC ACID.

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

Handling and Storage Precautions:KEEP LOCKED UP, KEEP CONTAINER DRY. DO NOT INGEST. DO NOT BREATHE GAS, FUMES, VAPO, SPRAY. NEVER ADD WATER TO PRODUCT. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. IF INGESTED, SEEK MEDICAL AID IMMEDIATELY & SHOW THE CONTAINER OR THE LABEL. AVOID CONTACT WITH SKIN/EYES.

Other Precautions:CORROSIVE MATERIAL SHOULD BE STORED IN A SEPERATE STORAGE CABINET OR ROOM.

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

Respiratory Protection:A SELF CONTAINED BREATHING APPARATUS SHOULD BE USED TO AVOID INHALATION OF THE PRODUCT. BE SURE TO USE A MSHA APPROVED RESPIRATOR OR EQUIVALENT. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE.

Ventilation:PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE THRESHOLD LIMIT VALUE.

Protective Gloves:GLOVES (IMPERVIOUS).

Eye Protection:SPLASH GOGGLES.

Other Protective Equipment:FULL SUIT. VAPOR RESPIRATOR. BE SURE TO USE A MSHA APPROVED RESPIRATOR OR EQUIVALENT. BOOTS. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE.

Supplemental Safety and Health

CHRONIC EFFECTS: REPEATED OR PROLONGED EXPOSURE TO SPRAY MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT ATTACKS ON BRONCHIAL INFECTION. REPEATED EXPOSURE TO A HIGHLY TOXIC MATERIAL MAY

PRODUCE GENERAL DETERIORATION OF HEALTH BY AN ACCUMULATION IN ONE OR MANY HUMAN ORGANS.

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

HCC:B1

Melt/Freeze Pt:M.P/F.P Text:DECOMPOSES

Vapor Pres:475MM HG@ 20C

Spec Gravity:0.898 (H2O=1)

pH:12(1%SOLN/H2O)

Solubility in Water:EASILY SOL IN COLD WATER

Appearance and Odor:LIQUID; ODOR, TASTE AND COLOR NOT AVAILABLE

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

Stability Indicator/Materials to Avoid:YE

S

NO SPECIFIC INFORMATION IS AVAILABLE IN OUR DATA BASE REGARDING THE REACTIVITY OF THIS MATERIAL IN PRESENCE OF VARIOUS OTHER MATERIALS. NON-CORRO IN PRESENCE OF GLASS.

Stability Condition to Avoid:NO ADDITIONAL REMARK.

===== Toxicological Information =====

Toxicological Information:ACUTE ORAL

TOXICITY(LD50):350MG/KG(RAT).SUBSTANCE IS TOXIC TO LUNGS, MUCOUS MEMBRANES. TOXICITY OF PRODUCT TO REPRODUCTIVE SYSTEM: NOT AVAILABLE. EXTREMELY DANGEROUS

US IN CASE OF EYE CONTACT(IRRITATION) .

VERY DANGEROUS IN CASE OF SKIN CONTACT(IRRITATION), OF INGESTION, OF INHALATION. SLIGHTLY DANGEROUS TO DANGEROUS IN CASE OF SKIN CONTACT(CORROSIVE). VERY SLIGHTLY TO SLIGHTLY DANGEROUS IN CASE OF SKIN CONTACT(PERMEATOR).

===== Ecological Information =====

Ecological:ECOTOXICITY: NOT AVAILABLE. BOD5 & COD: NOT AVAILABLE.

PRODUCTS OF BIODEGRADATION: NOT APPLICABLE. THE PRODUCTS OF DEGRADATION ARE MORE TOXIC.

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

Waste Disposal Methods:RECYCLE TO PROCESS, IF POSSIBLE. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.

===== MSDS Transport Information =====

Transport Information:DOT CLASS 8:CORROSIVE LIQUID, AMMONIA SOLUTION UN2672, III.

===== Regulatory Information =====

Federal Regulatory Information:THE FOLLOWING PRODUCT IS LISTED BY CERCLA: AMMONIUM

HYDROXIDE. THE FOLLOWING PRODUCT IS LISTED ON TSCA:

AMMONIUM HYDROXIDE. OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1 200).

State Regulatory Information:THIS FOLLOWING PRODUCT IS LISTED BY THE STATE OF MASSACHUSETTS AND STATE OF PENNSYLVANIA: AMMONIUM HYDROXIDE.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elem

ents of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.