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VAN WATERS AND ROGERS INC -- AMMONIUM CHLORIDE -- 6810-00-281-2033

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

Product ID: AMMONIUM CHLORIDE

MSDS Date:02/17/1999

FSC:6810

NIIN:00-281-2033

Status Code:A

MSDS Number: CKWNF === Responsible Party ===

Company Name: VAN WATERS AND ROGERS INC

Address:6100 CARILLON POINT

City:KIRKLAND

State:WA

ZIP:98033-7357

Country:US

Info Phone Num:425-889-3400/425-889-3617

Emerge

ncy Phone Num:(800)424-9300

Resp. Party Other MSDS Num.:MZA5724

Chemtrec Ind/Phone:(800)424-9300

CAGE:0STM5

=== Contractor Identification ===

Company Name: VAN WATERS AND ROGERS

Address:2256 JUNCTION AVE

City:SAN JOSE

State:CA ZIP:95131

Country:US

Phone: 408-435-8700/800-424-9300 (CHEMTREC)

CAGE:0AN91

Company Name: VOPAK USA INC Address: 6100 CARILLON POINT

Box:City:KIRKLAND

State:WA

ZIP:98033-7357

Country:US

Phone: 425-889-3400/425-889-3617

CAGE:0STM5

====== Composition/Information on Ingred

ients	

Ingred Name: AMMONIUM CHLORIDE

CAS:12125-02-9
RTECS #:BP4550000
Minumum % Wt:99.
Maxumum % Wt:100.
ACGIH TLV:10 MG/M3
ACGIH STEL:20 MG/M3
EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

LD50 LC50 Mixture:ORAL, RAT LD50 1650 MG/KG

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

Health Hazards Acute and Chronic:INHALATION: CAUSES IRRITATION TO THE RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE COUGHING, SHO

RTNESS OF

BREATH. INGESTION: CUSES IRRITATION TO THE GASTROINTESTINAL TRACT. SYMPTOMS MAY INCLUDE NAUSEA, VOMI TING AND DIARRHEA. SKIN CONTACT: CAUSES IRRITATION TO SKIN. SYMPTOMS INCLUDE REDNESS, ITCHING, AND PAIN. EYE CONTACT: CAUSES IRRITATION, REDNESS, AND PAIN. CHRONIC EXPOSURE: NO INFORMATION FOUND.

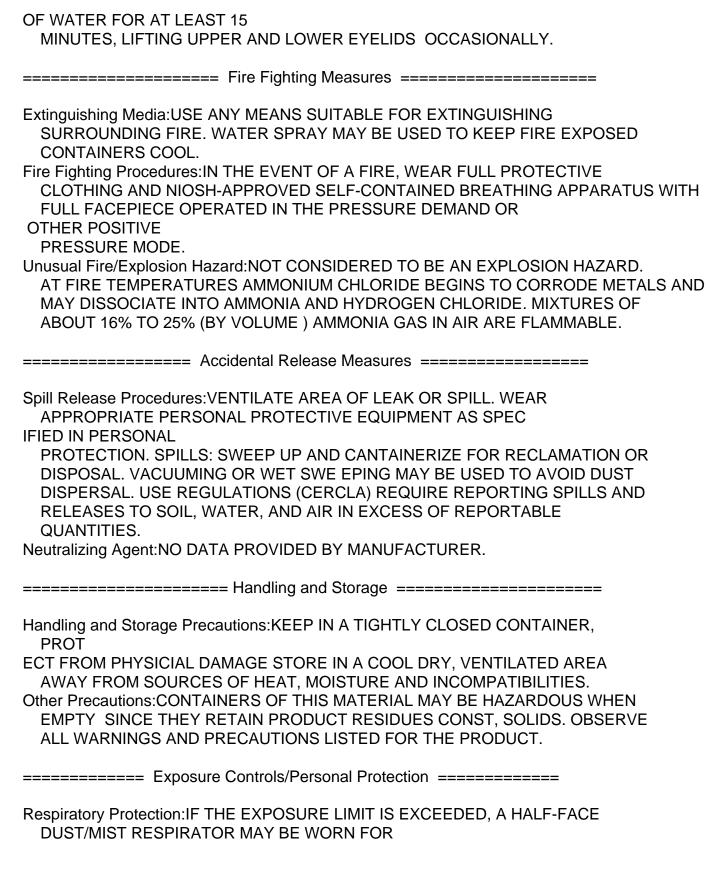
Explanation of Carcinogenicity:NO DATA PROVIDED BY MANUFACTURER Effects of Overexposure:INHALATION: CAUSES IRRITATION TO THE RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE COUG HING. SHORTNESS OF

BREATH. INGESTION: CUSES IRRITATION TO THE GASTROINTESTINAL TRACT. SYMPTOMS MAY INCLUDE NAUSEA, VOMI TING AND DIARRHEA. SKIN CONTACT: CAUSES IRRITATION TO SKIN. SYMPTOMS INCLUDE REDNESS, ITCHING, AND PAIN. EYE CONTACT: CAUSES IRRITATION, REDNESS, AND PAIN.

Medical Cond Aggravated by Exposure: NO INFORMATION FOUND.

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICAL

RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN, GET MEDICAL ATTENTION. INGESTION: INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDIC AL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE, THOROUGHLY CLEAN SHOES BEFORE REUSE. EYE: IMMEDIATELY FLUSH EYES WITH PLENTY



UP TO TEN TIMES THE EXPOSURE

LIMIT OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST. FOR EMERGENCIES OR INSTANCES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN, (SEE SUPPLEMENTAL)

Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS.

Protective Gloves: IMPERVIOUS

Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD.

Other

Protective Equipment:WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS AS APPROPRIATE TO PREVENT SKIN CONTACT.

Work Hygienic Practices: NO DATA PROVIDED BY MANUFACTURER.

Supplemental Safety and Health

USE A FULL-FACEPIECE POSITIVE-PRESSURE, AIR-SUPPLIEDRESPIRATOR. WARNING: AIR-PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

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

HCC:N1
Boiling P
t:=520.C, 968.F

Melt/Freeze Pt:=338.C, 640.4F

Vapor Pres:1.0@160C Vapor Density:1.9

pH:5.0 - 5.5

Evaporation Rate & Discrete Reference: NO INFO (BUAC 1)

Solubility in Water:29.7G/100G WATER@0C

Appearance and Odor:WHITE POWDER, ODORLESS

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

CONCENTRATED ACIDS, STRONG BASES, SILVER SALTS, POTASSIUM CHLORATE, AMMONIUM NITRATE, BROMINE TRIFLUORIDE AND IODINE HEPTAF LUORIDE.

AMMONIUM CHLORIDE REACTS EXPLOSIVELY WITH POTASSIUM CHLORATE OR BROMINE TRIFLUORIDE, AND VI

Stability Condition to Avoid: HEAT, MOISTURE, INCOMPATIBLES.

Hazardous Decomposition Products:INVOLVEMENT IN A FIRE CAUSES DECOMPOSITION TO FORM HYDROGEN CHLORIDE AND AMMONIA.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Toxicological Information:ORAL, RAT LD50 : 1650 MG/KG. INVESTIGATD AS A MUTAGEN.

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