

SOHIO CHEMICAL AND INDUSTRIAL PRODUCTS CO -- ANHYDROUS AMMONIA -- 6830-00-664-9062

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

Product ID:ANHYDROUS AMMONIA

MSDS Date:10/04/1985

FSC:6830

NIIN:00-664-9062

MSDS Number: BLLVQ

=== Responsible Party ===

Company Name:SOHIO CHEMICAL AND INDUSTRIAL PRODUCTS CO

Address:20600 CHAGRIN BLVD

City:SHAKER HEIGHTS

State:OH

ZIP:44122-5334

Country:US

Info Phone Num:800-321-

8642/CHEMTREC 800-424-9300

Emergency Phone Num:800-321-8642/CHEMTREC 800-424-9300

Preparer's Name:G. R. KRAUTTER

CAGE:9Z112

=== Contractor Identification ===

Company Name:SOHIO CHEMICAL AND INDUSTRIAL PRODUCTS CO

Address:20600 CHAGRIN BLVD

Box:City:SHAKER HEIGHTS

State:OH

ZIP:44122-5334

Country:US

Phone:800-321-8642/CHEMTREC 800-424-9300

CAGE:9Z112

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

Ingred Name:AMMONIA (SARA III)

CAS:7664-41-7

RTECS #:BO0875000

Fraction by Wt

: 99.9%

Other REC Limits:NONE SPECIFIED

OSHA PEL:50 PPM

ACGIH TLV:25 PPM/35 STEL; 9293

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

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

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

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

Health Hazards Acute and Chronic:ACUTE-EYES/SKIN:EXTREMELY IRRITATING &

CORROSIVE.SKIN CONTACT WITH LIQUEFIED MATERIAL MAY CAUSE

FROSTBITE.SEVERE EYE EXPOSURE MAY CAUSE PERMANENT

DA

MAGE. INHALATION: SLIGHTLY TOXIC. MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT. SEVERE EXPOSURE MAY CAUSE SWELLING OF MOUTH & THROAT, DAMAGE HEART, LIVER & KIDNEY. CHRONIC-N/K.

Effects of Overexposure: SEVERE IRRITATION OF EYES & SKIN. CONTACT WITH SKIN MAY CAUSE REDDENING, ITCHING, INFLAMMATION, BLISTERING & TISSUE DAMAGE. INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION, COUGHING, DIFFICULTY IN BREATHING & PULMONARY EDEMA. EXCESS AMMONIA IN THE BODY IS DETOXIFIED IN THE LIVER BY

CONVERSION TO UREA.

Medical Cond Aggravated by Exposure: THOSE WITH A HISTORY OF REDUCED LIVER FUNCTION ARE MORE SUSCEPTIBLE TO AMMONIA.

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

First Aid: SEEK MEDICAL CARE IMMEDIATELY IN ALL CASES. EYES: FLUSH WITH WATER FOR 15 MINUTES. EYE LIDS SHOULD BE HELD AWAY FROM EYEBALL. SKIN: WASH THOROUGHLY WITH SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. GIVE CPR / OXYGEN IF NEEDED. KEEP AFFECTED PERSON WARM & AT REST. NOTE T

PHYSICIAN: PATIENTS WHO SURVIVE 48 HRS ARE LIKELY TO RECOVER. EYE INJURY MAY BE DELAYED & FREQUENTLY FOLLOWED BY PERMANENT BLINDNESS.

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

Lower Limits: 16

Upper Limits: 25

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. DISPERSE VAPORS AND PROTECT PERSONNEL WITH WATER SPRAY.

Fire Fighting Procedures: WEAR A NIOSH/MSHA-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE & FULL

PROTECTIVE EQUIPMENTS. COOL FIRE EXPOSED CONTAINERS (H₂O).

Unusual Fire/Explosion Hazard: IF GAS CANNOT BE SHUT OFF, DO NOT EXTINGUISH FIRE. FIRE MAY PRODUCE POISONOUS OR IRRITATING GAS, FUMES OR VAPORS. CONTAINERS MAY EXPLODE IN HEAT OF FIRE.

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

Spill Release Procedures: VENTILATE & EVACUATE AREA. USE PROTECTIVE CLOTHING & RESPIRATORS. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. USE WATER SPRAY TO REDUCE VA

PORS.ISOLATE AREA UNTIL GAS HAS
DISPERSED.REPORT ANY SPILL OF THE RE PORTABLE QUANTITY (100 LBS) TO
NRC AT 800-424-8802

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

Handling and Storage Precautions:STORAGE-STORE IN COOL,DRY & VENTILATED
AREA IN TIGHTLY CLOSED CONTAINERS AWAY FROM HEAT,SOURCES OF
IGNITION & INCOMPATIBLES.

Other Precautions:EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. DO NOT
REUSE WITHOUT ADEQUATE PRECAUTIONS. USE UNDER THE HOOD OR WEAR
RESPIRATOR. AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING
VAPORS OR SMELLING THE GAS.

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

Respiratory Protection:WEAR A NIOSH/MSHA-APPROVED SELF-CONTAINED
BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE & FULL
PROTECTIVE EQUIPMENTS.

Ventilation:LOCAL/GENERAL TO MAINTAIN PEL/TLV.

Protective Gloves:BUTYL RUBBER,NEOPRENE,NITRILE RUBBER,PVC

Eye Protection:CHEMICAL SAFETY GOGGLES & FACE SHIELD

Other Protec

tive Equipment:PROTECTIVE CLOTHING, EYE-WASH FACILITIES,
SAFETY SHOWER

Work Hygienic Practices:DO NOT WEAR CONTACT LENSES WHEN WORKING WITH
THIS SUBSTANCE..WASH THOROUGHLY AFTER HANDLING OR BEFORE
EATING/DRINKING.

Supplemental Safety and Health

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

HCC:G5

Boiling Pt:B.P. Text:-28F,-33C

Melt/Freeze Pt:M.P/F.P Text:-108F,-78C

Vapor Pres:480 @ 60F

Vapor Density:0.6

Spec Gravity:0.617

Evaporation Rate & Reference:FAST

ER (WATER=1)

Solubility in Water:90 G/100 ML @ 0C

Appearance and Odor:COLORLESS GAS HAVING A SHARP, INTENSELY IRRITATING
ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ACIDS, HYPOCHLORITES (BLEACH), SODIUM HYDROXIDE, IRON, GALVANIZED
SURFACES, CU, BRASS, BRONZE, AL ALLOYS, HG, GOLD, AG

Stability Condition to Avoid:HIGH TEMPERATURES AND OPEN FLAMES

Hazardous Decomposition Products:DECOMP

OSSES TO HYDROGEN AND NITROGEN

GASES ABOVE 450 C.

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

Waste Disposal Methods:THE TRANSPORTATION, STORAGE, TREATMENT AND
DISPOSAL OF THIS WASTE MATERIAL MUST BE CONDUCTED IN COMPLIANCE
WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

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

This information is formulated for use by elements of the Department
of Defense. The United States of Ame

rica 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.