

OCCIDENTAL CHEMICAL CORPORATION -- ANHYDROUS AMMONIA A1 GRADE -- 6830-00-616-9184
===== Product Identification =====

Product ID:ANHYDROUS AMMONIA A1 GRADE

MSDS Date:07/28/1989

FSC:6830

NIIN:00-616-9184

MSDS Number: BNKLB

=== Responsible Party ===

Company Name:OCCIDENTAL CHEMICAL CORPORATION

Address:360 RAINBOW BOULEVARD SOUTH SUITE 400

City:NIAGARA FALLS

State:NY

ZIP:14302

Country:US

Info Phone Nu

m:(716) 286-3081

Emergency Phone Num:(716) 278-7021

CAGE:OAN54

=== Contractor Identification ===

Company Name:JONES CHEMICALS INC

Address:100 SUNNY SOL BLVD

Box:City:CALEDONIA

State:NY

ZIP:14423

Country:US

Phone:716-538-2311

CAGE:84297

Company Name:OCCIDENTAL CHEMICAL CORPORATION

Address:CUSTOMER SERVICE, OCCIDENTAL TOWER

Box:809050

City:DALLAS

State:TX

ZIP:75380

Phone:(800) 752-5151

CAGE:OAN54

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

Ingred Name:AMMONIA, AMMONIUM H

YDROXIDE-ANHYDROUS, ANHYDROUS AMMONIA

CAS:7664-41-7

RTECS #:BO0875000

Other REC Limits:25 PPM

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:YES

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

Health Hazards Acute and Chronic:INHALATION: IRRITATION OF UPPER
RESPIRATORY TRACT. SKIN: IRRITATION OR SEVERE BURNS. EYES:
PENETR

ATES OCULAR TISSUE CAUSING PERMANENT DAMAGE, TEMPORARY
BLINDNESS & SEVERE BURNS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION: IRRITATION OF UPPER RESPIRATORY
TRACT. SKIN: SEVERE IRRITATION. EYES: PENETRATES OCULAR TISSUE
CAUSING PERMANENT DAMAGE, TEMPORARY BLINDNESS, & SEVERE BURNS.

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

First Aid:SKIN: FLUSH W/WATER & WASH W/SOAP & WATER. INHALATION: REMOVE
TO FRESH AIR. KEEP AFFECTED PE

RSON WARM & AT REST. IF BREATHING IS

DIFFICULT ADMINISTER OXYGEN. IF BREATHIG STOPS GIVE ARTIFICIAL
RESPIRATI ON. INGESTION: IF VICTIM IS CONSCIOUS ADMINISTER LARGE
QUANTITIES OF WATER. DON'T INDUCE VOMITING. OBTAIN MEDICAL
ATTENTION IN ALL CASES.

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

Lower Limits:16%

Upper Limits:27%

Extinguishing Media:WATER SPRAY, FOG, FOAM, DRY CHEMICALS, CO2 OR OTHER
AGENTS AS APPROPRIATE FOR MATERIALS IN THE FIRE.

Fire Fi

ghting Procedures:EVACUATE AREA IF TANKS ARE LEAKING/HEAVILY EXPOSED TO HEAT. USE NIOSH/MSHA , SCBA & FULL PROTECTIVE EQUIPMENT.
Unusual Fire/Explosion Hazard:EXCESSIVE HEAT WILL FORM NITROGEN OXIDES.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT & CLOTHING. USE COPIOUS AMOUNTS OF WATER SPRAY. EVACUATE UNPROTECTED PERSONNEL IN DOWNWIND AREAS. KEEP CONTAMINATED WATER OUT OF SEWERS & STREAMS.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA, W/AUTOMATIC MONITORING SYSTEM. STORE SEPARATE FROM ACIDS, OXIDIZING GASES, BLEACH, CHLORATES & METALS.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED AMMONIA VAPOR RESPIRATOR FOR AREAS WHERE AIRBORNE EXPOSURE IS EXCESSIVE.

Ventilation:LOCAL EXHAUST

Protective Gloves:VINYL, NEOPRENE OR RUBBER

Eye Protection:SIDE SHIELDS OR CHEMICAL GOGGLES

Other Protective Equipment:EYE WASH FACILITY & EMERGENCY SHOWER. FACE SHIELD & RUBBER SHOES ARE RECOMMENDED.

Work Hygienic Practices:IF CLOTHING IS PENETRATED IMMEDIATELY USE SAFETY SHOWER & REMOVE CLOTHING.

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:-28F

Melt/Freeze Pt:M.P/F.P Text:-172F

Vapor Pres:40F

Vapor Density:0.597

Spec Gravity:0.7

Solubility in Water:5

1

Appearance and Odor:COLORLESS GAS, PUNGENT ODOR

Percent Volatiles by Volume:100%

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

Stability Indicator/Materials to Avoid:YES

SILVER, MERCURY, HALOGENS, COPPER, COPPER ALLOYS, ALUMINUM ALLOYS, & GALVANIZED SURFACES.

Stability Condition to Avoid:HEAT, IGNITION SOURCES, OXIDIZING GASES, CHLORINE, BROMINE, IODINE, & ACIDS.

Hazardous Decomposition Products:PRODUCTS OF DECOMPOSITION INCLUDE OXIDES OF NITROGEN.

=====

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

Waste Disposal Methods: DILUTE W/WATER & DRAIN TO WASTE TREATMENT FACILITIES. DISPOSE OF IN ACCORDANCE W/FEDERAL, STATE, & LOCAL 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 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.