

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

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===== 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.

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

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

PERSON WARM & AT REST. IF BREATHING IS

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

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===== 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

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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.

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

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

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