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Product ID: ANHYDROUS AMMONIA MSDS Date:06/01/1985 FSC:6830 NIIN:00-169-0777 MSDS Number: CCMHL === Responsible Party === Company Name: OCCIDENTAL CHEMICAL CORP DIV OCCIDENTAL PETROLEUM Address:345 THIRD ST Box:728 City:NIAGARA FALLS State:NY ZIP:14302 Country:US Info Phone N um:716-278-7000 Emergency Phone Num:716-278-7000 CAGE:32618 === Contractor Identification === **Company Name: JONES CHEMICALS INC** Address:1201 PCIFIC AVE SUITE 1101 Box:City:TACOMA State:WA ZIP:98422 Country:US Phone:716-538-2314 CAGE:6M624 Company Name: OCCIDENTAL CHEMICAL CORPORATION **Box:UNKNOW** CAGE:09287 Company Name: OCCIDENTAL CHEMICAL CORPORATION Address:360 RAINBOW BLVD S Box:728 **City:NIAGARA FALLS** State:NY ZIP:14302 Country:US Phone:1-800-733-3665 CAGE:32618 ======= Composition/Inform

ation on Ingredients =========

Ingred Name: AMMONIA (SARA 302/313) (CERCLA) CAS:7664-41-7 RTECS #:BO0875000 Fraction by Wt: 100% Other REC Limits:25 PPM **OSHA PEL:50 PPM** ACGIH TLV:25 PPM/35 STEL; 9596 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS LD50 LC50 Mixture:STEL 35 PPM - 27 MG/M3 Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: SEVERE IRRITANT OF EYES, RESPIRATORY TRACT AND SKIN. EXPOSURE MAY CAUSE BURNING AND TEARING OF EYES, RUNNY NOSE, COUGHING, CHEST PAIN, CESSATION OF RESPIRATION, DEATH. MAY CAUSE SEVERE BREATHING DIFFI CULTIES WHICH MAY BE DELAYED IN ONSET. MAY PRODUCE TEMPORARY BLINDNESS. LIQUID MAY CAUSE PERMANENT EYE DAMAGE. Explanation of Carcinogenicity: THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS. Effects o f Overexposure: BURNING AND TEARING OF EYES, RUNNY NOSE, COUGHING, CHEST PAIN, CESSATION OF RESPIRATION, DEATH, BREATHING DIFFICULTIES, TEMPORARY OR PERMANENT BLINDNESS & SEVERE BURNS. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER. First Aid: EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INH ALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE 1-2 GLASSES OF WA TER IF CONSCIOUS. GET MEDICAL ATTENTION. Flash Point:NONFLAMMABLE 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 Fightin**

g Procedures:FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER. Unusual Fire/Explosion Hazard:EXCESSIVE HEAT WILL FORM NITROGEN OXIDES.
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Spill Release Procedures: KEEP UNPROTECTED PEOPLE AWAY. STAY UPWIND OF SOURCE. PERSONNEL INVOLVED IN CLEAN-UP MUST WEAR FULL PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS. CON TAMINATED AREA AND EQUIPMENT SHOULD B E THOROUGHLY WASHED DOWN WITH WATER. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
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Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED, FIRE RESISTANT AREA SEPARATE FROM ACIDS AND OXIDIZING GASES. AVOID COPPER, COPPER ALLOY, ALUMINUM ALLOY. Other Precautions:NONE SPECIFIED BY MANUFACTURER.
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 Respiratory Protection: USE NIOSH/MSHA APPROVED AMMONIA VAPOR RESPIRATOR FOR AREAS WHERE AIRBORNE EXPOSURE IS EXCESSIVE. Ventilation: PROVIDE GOOD GENERAL ROOM VENTILATION TO MINIMIZE EXPOSURE. USE LOCAL EXHAUST VENTILATION AT POINTS OF GASEOUS EMISSION. Protective Gloves: VINYL, NEOPRENE OR RUBBER Eye Protection: SIDE SHIELDS OR CHEMICAL GOGGLES Other Protective Equipment: CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE A VAILABLE. Work Hygienic Practices: WASH HANDS THOROUGHLY WITH SOAP AND WATER
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. Supplemental Safety and Health NONE SPECIFIED BY MANUFACTURER.
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HCC:B1 Boiling Pt:=-33.C, -27.4F Melt/Freeze Pt:=-78.C, -108.4F Decomp Temp:Decomp Text:NOT GIVEN Vapor Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:0.7 Evaporation Rate & amp; Reference:NOT GIVEN Solubility in Water:AP

PRECIABLE

Appearance and Odor:COLORLESS GAS, PUNGENT ODOR Percent Volatiles by Volume:100%

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.

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

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