Product ID:DINITROL AV 100D MSDS Date:07/30/1996 FSC:6850 NIIN:01-370-2596 Status Code:A MSDS Number: CJKNH === Responsible Party === Company Name: DINOL U.S., INC. Address:14826 NE 95TH STREET City:REDMOND State:WA ZIP:98052 Country:US Info Phone Num:425-556-5114 Emergency Phone Num:020-996000+4608337043 Pr eparer's Name:LENA ALMESTRAND CAGE:0L040 === Contractor Identification === Company Name: DINOL U.S., INC. Address:14826 NE 95TH STREET Box:City:REDMOND State:WA ZIP:98052 Country:US Phone: 425-556-5114/800-331-4304 Contract Num:SP0450-99-M-NA43 CAGE:0L040

Ingred Name:NAPHTHA (PETROLEUM), HYDROTREATED HEAVY CAS:64742-48-9 Minumum % Wt:20. Maxumum % Wt:30.

Ingred Name:BARIUM DINONYLNAPHTHALENESULFONATE CAS:25619-56-1 Minumum % W LD50 LC50 Mixture:>5000 MG/KG

Health Hazards Acute and Chronic:ACUTE: MAY BE HARMFUL AT INHALATION AT LONG EXPOSURE. DRIES THE SKIN. MAY BE HARMFUL AT INGESTION. FLAMMABLE.
Explanation of Carcinogenicity:NOT PROVIDED.
Effects of Overexposure:SKIN: DRY SKIN. INGESTION: COUGH, VOMITING. EYES: DISCOMFORT.
Medical Cond Aggravated by Exposure:NOT PROVIDED.

======= First Aid M

First Aid:INHALATION: FRESH AIR AND REST. ALTERNATIVELY ARTIFICIAL RESPIRATION. INGESTION: GIVE 3 OZ OF USP WHITE MINERAL OIL OR EDIBLE VEGETABLE OIL TO DRINK. TO HOSPITAL IF STRONG COUGH OR VOMITING OCCURS, O R IF LARGER QUANTITY HAS BEEN CONSUMED.DO NOT INDUCE VOMITING. SKIN: REMOVE SOAKED CLOTHING. WASH SKIN WITH SOAP AND WATER. EYES: RINSE WITH WATER. CONTACT PHYSICIAN IF DISCOMFORT CONTINUES.

========================== Fire Fighting M

Flash Point Method:PMCC
Flash Point:>47.C, 116.6F
Autoignition Temp:>200.C, 392.F
Lower Limits:0.50
Upper Limits:7
Extinguishing Media:FIRE MAY BE EXTINGUISHED USING POWDER, FOAM OR CARBON DIOXIDE (CO2). CONTAINERS CLOSE TO FIRE SHOULD BE REMOVED OR COOLED WITH WATER.
Fire Fighting Procedures:FIRE MAY BE EXTINGUISHED USING POWDER, FOAM OR CARBON DIOXIDE (CO2). CONTAINERS CLOSE TO FIRE SHOULD BE REMOVED OR COOLED WITH WATER.

Unusual Fire/Explosion H

azard:MAY REACT VIOLENTLY WITH OXIDIZING MATERIALS.

Spill Release Procedures: ABSORB IN VERMICULITE, DRY SAND OR EARTH AND PLACE INTO CONTAINERS. COLLECT SPILLAGE IN CONTAINERS, SEAL SECURELY AND DELIVER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS. Neutralizing Agent:NOT PROVIDED. Handling and Storage Precautions: PROVIDE GOOD VENTILATION. MECHANI CAL VENTILATION OR LOCAL EXHAUST VENTILATIONMAY BE REQUIRED. STORE AT MODERATE TEMPERATURES IN DRY, WELL VENTILATED AREA. Respiratory Protection: RESPIRATORY PROTECTION MAY BE REQUIRED GAS CARTRIDGE (ORGANIC SUBSTANCES). Ventilation: PROVIDE GOOD VENTILATION. MECHANICAL VENTILATION OR LOCAL EXHAUST VENTILATION MAY BE REQUIRED. Protective Gloves: USE PROTECTIVE GLOVES MADE OF NEOPRENE, NITRILE. Supplemental Safety and Health N/PP

HCC:F4 Boiling Pt:B.P. Text:150 TO 200 C Vapor Pres:< 1 (KPA) Vapor Density:> 1(AIR=1) Spec Gravity:.97 G/ML AT 23C Viscosity:0.50 PAS AT 23 C Evaporation Rate & amp; Reference:< 0.12(BUAC=1) Solubility in Water:.01 (/100G H20 20C) Appearance and Odor:FLUID, LIGHT BROWN

MAY REACT VIOLENTLY WITH OXIDIZING MATERIALS. Stability Condition to Av

oid:FLAMES. HIGH TEMPERATURES.
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Toxicological Information:LC50 > 3200 PPM/4H (INHALATION RAT)
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Ecological:THE PRODUCT IS NOT CLASSIFIED AS HARMFUL TO THE ENVIRONMENT. THE PETROLEUM NAPTHA IS NOT CLASSIFIED AS ENVIRONMENTALLY HARMFUL AND HAS LOW TOXICITY FOR WATER ORGANISMS. MAJOR LOCAL OUTLETS COULD BE A RISK. THE NAPTHA IS EASILY DEGRADABLE. THE PETROLEUM NAPTHA CAN BE BIOACCUMULATED. FOR THE PETROLEUM NAPTHA LC50 (FISH) 10-100 MG/L, EC50 (DAPHNIA) 10-100 MG/L, IC50 (ALGAES) 10-100 MG/L.
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Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS.
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Transport Information:RAIL TRANSPORT : RID CLASS NUMBER 3-31C.
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SARA Title III Information:N/P.

Federal Regulatory Information:RISK PHRASES: R-10 FLAMMABLE. SAFETY PHRASES: S-9 KEEP CONTAINER IN A WELL VENTILATED PLACE; S-23 DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY; S-24 AVOID CONTACT WITH SKIN; S-38 IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. State Regulatory Information:N/P.

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