

DINOL INTERNATIONAL. -- DINITROL AV 30,HV/269 E -- 6850-01-355-3387

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

Product ID:DINITROL AV 30,HV/269 E

MSDS Date:02/11/1997

FSC:6850

NIIN:01-355-3387

MSDS Number: CFKKG

=== Responsible Party ===

Company Name:DINOL INTERNATIONAL.

Address:283 SW 41ST ST

City:RENTON

State:WA

ZIP:98055

Country:US

Info Phone Num:206-251-9504

Emergency Phone Num:206-251-9504

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

CAGE:0L040

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

Ingred Name:NAPHTHA(PETROLEUM)HYDROTREATED HEAVY SUBSTANCES WITH
HARMFUL PROPERTIES/MINERAL SPIRITS

CAS:64475-85-0

RTECS #:PY8240000

Fraction by Wt: 35 - 45%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3 AS OIL MIST

ACGIH TLV:5 MG/M3 AS

OIL MIST

Ingred Name:BUTYL GLYCOL/2-BUTOXYETHANOL
CAS:111-76-2
RTECS #:KJ8575000
Fraction by Wt: 1.1-1.6%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 50 PPM
ACGIH TLV:S, 25 PPM; 9596

Ingred Name:SURFACTANT/2,2'-(9-OCTADECENYLIMINO)BISETHANOL
CAS:25307-17-9
Fraction by Wt: 0.2%
Other REC Limits:NONE RECOMMENDED

Ingred Name:INHIBITOR(SULFONATE BASE)/CALCIUM
DINONYLNAPHTHALENESULFONATE
CAS:57855-77-3
Fraction by Wt: 10 - 20%
Other REC Limits:NONE RECOMMENDED

===== Hazard
s Identification =====

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS >2,000 MG/KG.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY &
GI TRACTS. ACUTE- MAY CAUSE EYE IRRITATION. PROLONGED/REPEATED SKIN
CONTACT MAY CAUSE DRYNESS. MAY BE HARMFUL IF INHALED OR INGESTED.
CHRONIC- UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRR
ITATION, HEADACHE, NAUSEA, VOMITING, BLURRED
VISION, TEARING, DRYNESS OF SKIN
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES:IMMEDIATELY
FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH
SOAP & WATER.

INHALED:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NECESSARY. ORAL:GET MEDICAL ATTENTION IF SIGNIFICANT AMOUNTS ARE INGESTED OR SEVERE COUGHING OR VOMITING OCCURS. TAKE 3 OZ USP MINERAL OIL OR VEGETABLE OIL.

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

Flash Point:>117F,>47C

Autoignition Temp:Autoignition Temp Text:464F

Lower Limits:0.6

Upper Limits:7.0

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, FOAM OR HALON. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. CONTAIN AND PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH, VERMICULITE. GROUND ALL HANDLING EQUIPMENTS. PREVENT LIQUID FROM ENTERING SEWERS OR WATERWAYS.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE AT MODERATE TEMPERATURES, IN DRY, WELL-VENTILATED AREAS AWAY FROM SOURCES OF IGNITION.

Other Precautions:"EMPTY" CONTAINERS RETAIN RESIDUE. FOLLOW ALL LABEL INSTRUCTIONS. AVOID REPEATED/PROLONGED SKIN CONTACT. KEEP OUT OF REACH OF CHILDREN. DO NOT BREATHE VAPORS. DO NOT INGEST. WASH AFTER HANDLING.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, WEAR A NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Prot

ective Gloves:NEOPRENE, NITRILE

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PNI A-C, SAME NSN.

===== Physic

al/Chemical Properties =====

HCC:F4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:284F - 392F

Vapor Pres:1

Evaporation Rate & Reference: