

DINOL INTERNATIONAL. -- DINITROL AV 30 (HV/269E) -- 6850-01-355-3387
===== Product Identification =====

Product ID:DINITROL AV 30 (HV/269E)
MSDS Date:11/02/1997
FSC:6850
NIIN:01-355-3387
MSDS Number: CGMLR
=== 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
Resp. Party Other MSDS Num.:300796
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-NJ90
CAGE:0L040
Company Name:EFTEC AB
Address:S-281 22 HASSLEHOLM
Box:149
CAGE:NO790

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

Ingred Name:2-BUTOXYETHANOL
CAS:111-76-2
RTECS #:KJ8575000
Minumum % Wt:1.1
Maxumum % Wt:1.6
Other REC Limits

:NONE RECOMMENDED
OSHA PEL:S, 50 PPM
ACGIH TLV:S, 25 PPM; 9596

Ingred Name:BIS(2-HYDROXYETHYL)OLEYLAMINE
CAS:25307-17-9
Minumum % Wt:0.
Maxumum % Wt:2.
Other REC Limits:NONE RECOMMENDED

Ingred Name:CALCIUM DINONYL NAPHTALENE SULFONATE
CAS:57855-77-3
Minumum % Wt:10.
Maxumum % Wt:20.
Other REC Limits:NONE RECOMMENDED

Ingred Name:NAPHTHA (PETROLEUM), HYDROTREATED HEAVY
CAS:64742-48-9
Minumum % Wt:35.
Maxumum % Wt:45.
Other REC Limits:350 MG/M3 (8 HR)

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on =====

LD50 LC50 Mixture:LD50 >2000MG/KG (ORAL,RAT)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: MAY CAUSE HEADACHE,
DIZZINESS, TIREDNESS, NAUSEA AT HI CONCENTRATIONS. REACTION
TIME/MEMORY MAY DETERIORATE, UNCONSCIOUSNESS MAY OCCUR. LONG/OFTEN
REPEATED INHALATION OF HI CONC MAY CAUSE PERM DAMAGE TO NERVOUS
SYSTEM. EYE: SMARTING PAIN, SLIGHT IRRITATIO
N. SKIN: DEGREASES SKIN
WHICH AT LONG/OFTEN REPEATED CONTACT MAY CAUSE REDDENING, SOMETIMES
ECZEMA. IN COMBINATION W/BAD PERSONAL HY GENE, MAY CAUSE DERMITIS,
OIL ACNE, OTHER SKIN CHANGES. INGESTION: MAY CAUSE NAUSEA,
VOMITING, DIARRHEA & SIMILAR SYMPTOMS AS INHALATION. RISK OF
CHEMICAL PNEUMONIA IF PRODUCT REACHES LUNGS AT VOMITIN G.
Explanation of Carcinogenicity:PETROLEUM NAPHTA/PETROEUM
DISTILLATE/LUBRICATING OIL FULFILL REQUIREMENTS FOR NOT BEING
CLASSIFIED AS CA

RCINOGEN.

Effects of Overexposure:HEADACHE, DIZZINESS, TIREDNESS, NAUSEA, DETERIORATED REACTION TIME/MEMEORY, UNCONSCIOUSNESS. PERMANENT DAMAGE TO NERVOUS SYSTEM. EYE: SMARTING PAIN, SLIGHT IRRITATION. SKIN: DEGREASES, REDDENING, ECZE MA, DERMATITIS, OIL ACNE, OTHER SKIN CHANGES. INGESTION :NAUSEA, VOMITING, DIARRHEA, SIMILAR SYMPTOMS AS INHALATION, CHEMICAL PNEUMONIA.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

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Fire Fighting Measures
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Flash Point Method:PMCC

Flash Point:>117F,>47C

Autoignition Temp:Autoignition Temp Text:>240C

Lower Limits:0.60

Upper Limits:7

Extinguishing Media:FIRE MAY BE EXTINGUISHED USING POWDER, FOAM, OR CARBON DIOXIDE (CO2).

Fire Fighting Procedures:CONTAINERS CLOSE TO FIRE SHOULD BE REMOVED OR COOLED WITH WATER.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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Accidental Release Measures
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Spill Release Procedures:ABSORB IN VERM ICULITE, DRY SAND OR EARTH &

PLACE INTO CONTAINERS. COLLECT SPILLAGE IN CONTAINERS, SEAL SECURELY & DELIVER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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Handling and Storage Precautions:PROVIDE GOOD VENTILATION. MECHANICAL VENTILATION OR LOCAL EXHAUST VENTILATION MAY BE REQUIRED. STORE IN MODERATE TEMPERATURES IN DRY WELL VENTILATED AREA.

Other Precautions:NONE

SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:RESPIRATORY PROTECTION MAY BE REQUIRED. GAS CARTRIDGE (ORGANIC SUBSTANCES).
Ventilation:MECHANICAL VENTILATION OR LOCAL EXHAUST VENTILATION MAY BE REQUIRED.
Protective Gloves:USE PROTECTIVE GLOVES MADE OF NEOPRENE, NITRILE.
Eye Protection:NOT PROVIDED. RECOMMEND CHEMICAL SPLASH GOGGLES
Other Protective Equipment:NOT PROVIDED
Work Hygienic Practices:NOT PROVIDED
Supplemental Safety and Health
NOT RELEVANT

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

HCC:F4
Boiling Pt:=140.C, 284.F
B.P. Text:140 TO 200 C
Melt/Freeze Pt:M.P/F.P Text:NP
Decomp Temp:Decomp Text:NP
Vapor Pres:1
Spec Gravity:NP
pH:NP
Viscosity:35 STOKES @ 23 C
Evaporation Rate & Reference: 2000 MG/KG (ORAL RAT), LC 50 >5 MG/1/4 HR (INHALATION RAT)

===== Ecological Information =====

Ecological:NOT CLASSIFIED AS HARMFUL TO ENVIRONMENT. PETROLEUM NAPHTHA
NOT CLASSIFIED AS ENVIRONMENTALLY HARMFUL AND HAS LOW TOXICITY FOR WATER ORGANISMS. MAJOR LOCAL OUTLETS COULD BE AT RISK. NAPHTHA IS EASILY BIODEGRADABLE. BIOACCUMULATION: PETROLEUM NAPHTHA CAN BE BIOACCUMULATED. BIODEGRADABILITY: NO INFORMATION AVAILABLE. PRODUCT IS EASILY DEGRADABLE. ACUTE FISH TOXICITY: NO INFO FOR PRODUCT.
NAPHTHA: LC 50 (FISH): 10-100 MG/L, EC50 (DAPHNIA): 10-100 MG/L, IC50 (ALGAE) 10-100 MG/L. WATER HAZARD CLASSIFICATION:

NO
INFORMATION AVAILABLE FOR PRODUCT WGK 1 (MANUFACTURER'S
ESTIMATION).

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

Waste Disposal Methods:CONFIRM DISPOSAL PROCEDURES WITH ENVIRONMENTAL
ENGINEER AND LOCAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:SEE TRANSPORTATION SECTION

===== Regulatory Information =====

SARA Title III Information:CHEMICALS LISTED ARE NOT
REGULATED

Federal Regulatory Information:NOT PROVIDED

State Regulatory Information:NOT PROVIDED

===== Other Information =====

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