

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. Pa

rty 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)

===== Hazards Identificati  
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.

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

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.

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

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.

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

Spill Release Procedures:ABSORB IN VERMICULITE, 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.

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

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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