

DINOL U.S., INC. -- DINITROL AV 30

=====

MSDS Safety Information

=====

FSC: 6850

NIIN: 01-436-3668

MSDS Date: 02/11/1999

MSDS Num: CKVSC

Product ID: DINITROL AV 30

MFN: 01

Responsible Party

Cage: 0L040

Name: DINOL U.S., INC.

Address: 14826 NE 95TH STREET

City: REDMOND WA 98052

Info Phone N

umber: 425-556-5114/800-331-4304

Emergency Phone Number: +46-8337043

=====

Item Description Information

=====

Item Manager: S9G

Item Name: WATER-DISPLACING COMPOUND

Specification Number: NONE

Type/Grade/Class: NONE

Unit of Issue: BX

Quantitative Expression: 00000000012EA

UI Container Qty: 1

Type of Container: AEROSOL CAN

=====

Ingredients

=====

Name: *** PROPRIETARY ***

=====

Health Hazards Data

=====

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: EFFECTS OF OVEREXPOSURE: INHALATION: IN HIGH CONCENTRATION
HEADACHE, DIZZINESS, TIREDNESS, IRRITATION ON EYES AND RESPIRATORY

TRACTS.

SKIN CONTACT: IRRITATION MAY CAUSE REDDENING AND CHAFFING. EYE CONTACT: IRRITATING BUT DO NOT DAMAGE THE EYE TISSUE. INGESTION: SMALL AMOUNTS OF PRODUCT WHICH REACH THE RESPIRATORY TRACTS BY INGESTION OR VOMITING MAY CAUSE PNEUMONIA.

Signs And Symptoms Of Overexposure: INHALATION: IN HIGH CONCENTRATION HEADACHE, DIZZINESS, TIREDNESS, IRRITATION ON EYES AND RESPIRATORY TRACTS. SKIN CONTACT: IRRITATION MAY CAUSE REDDENING AND CHAFFING. EYE CONTACT: IRRITATING BUT DO NOT DAMAGE THE EYE TISSUE.

First Aid: INHALATION: FRESH AIR AND REST. SKIN CONTACT: REMOVE SOILED CLOTHES. WASH WITH SOAP AND LOTS OF WATER. IF IRRITATION REMAINS, SEEK MEDICAL ASSISTANCE. EYE CONTACT: RINSE WITH LOTS OF WATER. GET MEDICAL ADVICE IF PROBLEMS REMAIN. INGESTION: AVOID VOMITING. TO HOSPITAL IF MORE THAN INSIGNIFICANT AMOUNT HAVE BEEN INGESTED.

=====
Handling and Disposal
=====

Spill

Release Procedures: USE SAND OR OTHER ABSORBING MATERIAL. AVOID GETTING INTO THE SEWAGE. FOLLOW LOCAL REGULATIONS.

Waste Disposal Methods: BURNING UNDER CONTROLLED CONDITIONS. FOLLOW LOCAL REGULATIONS.

Handling And Storage Precautions: NO SPECIAL PROCEDURES.

=====
Fire and Explosion Hazard Information
=====

Flash Point Method: COC

Flash Point: =47.C, 116.6F

Lower Limits: 0.6

Upper Limits:

7

Extinguishing Media: FOAM, CO2, DRY POWDER.

Fire Fighting Procedures: NONE

Unusual Fire/Explosion Hazard: MAY FORM EXPLOSIVE MIXTURES WITH AIR WHEN HEATED.

=====
Control Measures
=====

Respiratory Protection: NONE BY NORMAL USE. IF GOOD VENTILATION CANNOT BE PROVIDED USE BREATHING MASK OSHA 112.

Ventilation: GENERAL (MECHANICAL) RECOMMENDED.

Protective Gloves: CHEMICAL RESISTANT MATERIAL RE

COMMENDED.

Eye Protection: GLASSES AT RISK OF SPLASHING.

Other Protective Equipment: NO DATA PROVIDED BY MANUFACTURER

Work Hygienic Practices: NO DATA PROVIDED BY MANUFACTURER

Supplemental Safety and Health: THE AEROSOL CONSISTS OF 50% PRODUCT CONCENTRATE AND 50% 134A GAS AS PROPELLANT.

Physical/Chemical Properties

HCC: V2

B.P. Text: 140C - 200C

M.P/F.P Text: NOT DETERMINED

Vapor Pr

es: < 7.5 @ 20C/68F

Vapor Density: >1 (AIR=1)

Spec Gravity: 0.91

Evaporation Rate & Reference: 0.2 (BUAC=1)

Solubility in Water: INSIGNIFIGANT

Appearance and Odor: BROWN LIQUID, SLIGHT SMELL

Percent Volatiles by Volume: 42

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: LOW AND TOO HIGH TEMPERATURES.

Materials To Avoid: STRONGLY OXIDIZING SUBSTANCES.

H

azardous Decomposition Products: NONE BY NORMAL USE.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR

Toxicological Information

Toxicological Information: NO DATA PROVIDED BY MANUFACTURER

Ecological Information

Ecological: NO DATA PR

OVIDED BY MANUFACTURER

MSDS Transport Information

Transport Information: IMDG: CLASS: 3:3. PAGE 3321, UN NO. 1139, PACK GR.: I I
I. (NOTE FROM DLA-: THIS DATA IS FOR BULK PRODUCT NOT AEROSOL).

Regulatory Information

Sara Title III Information: NO DATA PROVIDED BY MANUFACT

URER

Federal Regulatory Information: NO DATA PROVIDED BY MANUFACTURER

State Regulatory Information: NO DATA PROVIDED BY MANUFACTURER

Other Information

Other Information: NO DATA PROVIDED BY MANUFACTURER

Transportation Information

Responsible Party Cage: 0L040

Trans ID NO: 1

55239

Product ID: DINITROL AV 30

MSDS Prepared Date: 02/11/1999

Review Date: 11/03/2000

MFN: 1

Tech Entry NOS Shipping Nm: ALIPHATIC HYDROCARBON, CYCLOHEXANONE

Net Unit Weight: 0.7 LBS/CAN

Multiple KIT Number: 0

Unit Of Issue: BX

Container QTY: 1

Type Of Container: AEROSOL CAN

Detail DOT Information

DOT PSN Code: AGC

DOT Proper Shipping Name: AEROSOLS, FLAMMABLE,

DOT PSN Modifier: (EA

CH NOT EXCEEDING 1 L CAPACITY)

Hazard Class: 2.1

UN ID Num: UN1950

Label: FLAMMABLE GAS

Special Provision: N82

Non Bulk Pack: NONE

Bulk Pack: NONE

Max Qty Pass: 75 KG

Max Qty Cargo: 150 KG

Vessel Stow Req: A

Water/Ship/Other Req: 40,48,85

Detail IMO Information

IMO PSN Code: AKD

IMO Proper Shipping Name: AEROSOLS o

IMDG Page Number: 2102

UN Number: 1950

UN Hazard Class: 2(T)

IMO Packa

ging Group: -
Subsidiary Risk Label: T
EMS Number: 2-13
MED First Aid Guide NUM: 620

=====

Detail IATA Information

=====

IATA PSN Code: ALS
IATA UN ID Num: 1950
IATA Proper Shipping Name: AEROSOLS, FLAMMABLE
IATA PSN Modifier: (EACH NOT EXCEEDING 1 L CAPACITY)
IATA UN Class: 2.1
IATA Label: FLAMMABLE GAS
Packing Note Passenger: 203
Max Quant Pass: 75KG
Max Quant Cargo: 150KG
Packaging Note Cargo:
203

=====

Detail AFI Information

=====

AFI PSN Code: ALR
AFI Symbols: *
AFI Proper Shipping Name: AEROSOLS, FLAMMABLE, N.O.S.
AFI PSN Modifier: (EACH NOT EXCEEDING 1L CAPACITY)
AFI Hazard Class: 2.1
AFI UN ID NUM: UN1950
Special Provisions: P4
Back Pack Reference: A6.3

=====

HAZCOM Label

=====

Pr
oduct ID: DINITROL AV 30
Cage: 0L040
Company Name: DINOL U.S., INC.
Street: 14826 NE 95TH STREET
City: REDMOND WA
Zipcode: 98052
Health Emergency Phone: +46-8337043
Label Required IND: Y
Date Of Label Review: 11/03/2000
Status Code: A
Origination Code: F
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: DANGER
Respiratory Protection IND: NO
Health Hazard: Moderate
Contact Hazard: Slight
Fire Hazard: Severe
Reactivity Hazard: None
Hazard And Precautions: CONTENTS UNDER PRESSURE! FLAMM

ABLE! EFFECTS OF

OVEREXPOSURE: INHALATION: IN HIGH CONCENTRATION HEADACHE, DIZZINESS, TIREDNESS, IRRITATION ON EYES AND RESPIRATORY TRACTS. SKIN CONTACT: IRRITATION MAY CAUSE REDDENING AND CHAFFING. EYE CONTACT: IRRITATING BUT DO NOT DAMAGE THE EYE TISSUE. INGESTION: SMALL AMOUNTS OF PRODUCT WHICH REACH THE RESPIRATORY TRACTS BY INGESTION OR VOMITING MAY CAUSE PNEUMONIA. TARGET ORGANS: N/P.

=====

Disclaimer (provided with this information by the compiling agencies): This

information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person

utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.