

ZIP-CHEM PRODUCTS/ MITANN INC DBA ZIP-CHEM PRODUCTS -- D-5330NS -- 9150-00-163-9036
===== Product Identification =====

Product ID:D-5330NS
MSDS Date:07/22/1998
FSC:9150
NIIN:00-163-9036
Status Code:A
MSDS Number: CLJPW
=== Responsible Party ===
Company Name:ZIP-CHEM PRODUCTS/ MITANN INC DBA ZIP-CHEM PRODUCTS
Address:400 JARVIS DR
City:MORGAN HILL
State:CA
ZIP:95037
Country:US
Info Phone Num:408-7
82-2500
Emergency Phone Num:(800) 424-9300
Chemtrec Ind/Phone:(800)424-9300
CAGE:1KQX9
=== Contractor Identification ===
Company Name:ZIP-CHEM PRODUCTS/ MITANN INC DBA ZIP-CHEM PRODUCTS
Address:400 JARVIS DR
Box:City:MORGAN HILL
State:CA
ZIP:95037
Country:US
Phone:408-782-2500
Contract Num:SP0450-01-M-LM79
CAGE:1KQX9

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

Ingred Name:MOLYBDENUM DISULFIDE
CAS:1317-33-5
RTECS #:QA4697000
< Wt:5.
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/

M3

Ingred Name:1,1-DIFLUOROETHANE
CAS:75-37-6
RTECS #:K11410000
Minumum % Wt:25.
Maxumum % Wt:30.
Other REC Limits:FLAMMABLE GAS
ACGIH TLV:1000 PPM

Ingred Name:DIMETHYL ETHER
CAS:115-10-6
RTECS #:PM4780000
Minumum % Wt:50.
Maxumum % Wt:55.
Other REC Limits:1000 PPM FLAMMABLE

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===== Hazards Identification =====

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: BREATHING HIGH CONCENTRATIONS
OF VAPORS MAY CAUSE TEMP
ORARY NERVOUS SYSTEM DEPRESSION WITH
ANESTHETIC EFFECTS SUCH AS DIZZINESS, HEADACHE, OR NAUSEA. CHRONIC:
PROLONGED EXPOSURE TO EXTREMELY HI GH CONCENTRATIONS OF THE VAPORS
MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR
DEATH.
Effects of Overexposure:INHALATION-ACUTE: NAUSEA, DIZZINESS,&/OR HEART
IRREGULARITIES MAY OCCUR FROM BREATHING HIGH CONCENTRATIONS.
CHRONIC: BREATHING EXTREMELY HIGH CONCENTRATIONS OF THE VAPORS MAY
LEAD TO ANESTHETIC EFFECT S S
UCH AS DIZZINESS, HEADACHE, OR NAUSEA.
PROLONGED EXPOSURE TO EXTREMELY HIGH CONCENTRATIONS OF VAPORS MAY
LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH.
SKIN-ACUTE: MAY CAUE IRR ITAION OR BURNING SENSATION AS WELL AS
FROSTBITE. CHRONIC: MAY CAUSE DERMATITIS. EYE: MAY CAUSE
IRRITATION. INGESTION-ACUTE: MAY CAUSE NAUSEA OR VOMITING.
Medical Cond Aggravated by Exposure:NONE KNOWN.

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

First Ai

d:DO NOT USE EPINEPHRINE IN CONJUNCTION WITH THIS MATERIAL.

EYES: FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES AND TAKE TO PHYSICIAN. SKIN: WASH AFFECTED AREA, TREAT FOR FROSTBITE IF NECESSARY, AND CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

INGESTION: CALL A PHYSICIAN AND/OR TRANSPORT TO EMERGENCY FACILITY IMMEDIATELY. DO NOT INDUCE VOMITING SO AS TO AVOID ASPIRATION OF MATERIAL INTO THE LUNGS. INHALATION: REMOVE FROM EXPOSURE AND RESTORE BREATHING. SEEK MEDICAL ATTENTION.

ENTION.

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

Flash Point:NOT DETERMINED

Lower Limits:1.1%

Upper Limits:19.0%

Extinguishing Media:FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG.

Fire Fighting Procedures:USE STANDARD FIREFIGHTING TECHNIQUES TO FIGHT FIRES INVOLVING THIS MATERIAL.

Unusual Fire/Explosion Hazard:HAZARDOUS COMBUSTION PRODUCTS:

HYDROCHLORIC AND HYDROFLUORIC ACIDS, CARBON MONOXIDE AND CARBON DIOXIDE, POSSIBLY CARBONYL HALIDES AT HIGH TEMPERATURES.

RATURES.

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

Spill Release Procedures:FOR ALL TRANSPORTATION ACCIDENTS CALL CHEMTREC AT 1-800-424-9300. REPORTABLE QUANTITY: N/A. STOP SOURCE OF SPILL AS SOON AS POSSIBLE & NOTIFY APPROPRIATE PERSONNEL. BURN AROUND SPILL AREA TO PREVENT SPILL FROM SPREADING. VENTILATE AREA. DO NOT FLUSH INTO SEWERS. VAPORS MAY BE SUPPRESSED BY USE OF WATER FOG OR SPRAY. CONTAIN ALL LIQUID FOR TREATMENT OR NEUTRALIZATION. CONTAIN FOR TREATMENT.

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

Handling and Storage Precautions:DO NOT TAKE INTERNALLY. AVOID CONTACT WITH EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES WASH OFF WITH WATER. STORE IN A COOL, DRY, WELL-VENTILATED PLACE. STORE AT TEMPERATURES BELOW 120F. DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAMES.

Other Precautions:AVOID BREATHING VAPORS. VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS AND OTHER C

UNFINISHED AREAS. SHELF LIFE

LIMITATIONS: 36 MONTHS FROM DATE OF SHIPMENT.

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

Respiratory Protection:USE A DUST RESPIRATOR WHEN WORKING WITH THE ATOMIZED PRODUCT. BREATHING APPARATUS RECOMMENDED IF NECESSARY FOR APPLICATION. REFER TO NIOSH PUBLICATION NO. 89-105 AND NIOSH NO. 87-116. SEE OSHA REQUIREMENT UNDER 29 CFR 1910.1025 AND 29 CFR 1910.134.

Ventilation:LOCAL OR MECHANICAL TO KEEP INGREDIENTS BELOW THEIR

EXPOSURE LIMITS.

Protective Gloves:IMPERVIOUS GLOVES ARE RECOMMENDED TO PREVENT SKIN CONTACT.

Eye Protection:SAFETY GLASSES TO PREVENT EYE CONTACT ARE RECOMMENDED.

Other Protective Equipment:BOOTS, APRON, PROTECTIVE SUIT.

Supplemental Safety and Health

PRODUCT CODE: 002059

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

HCC:V3

Boiling Pt:B.P. Text:NOT DETERMINED

Melt/Freeze Pt:M.P/F.P Text:NOT DETERMINED

Decomp Temp:Decomp Text:NOT DETERMINED

Vapor Pres:NOT DETERMINED

ED

Vapor Density:>AIR

Spec Gravity:0.8

Evaporation Rate & Reference:FASTER THAN ETHER

Solubility in Water:NEGLIGIBLE

Appearance and Odor:BLACK LIQUID; STRONG ODOR

Percent Volatiles by Volume:85%

===== Stability and Reactivity Data =====

CONCENTRATED NITRIC AND SULFURIC ACIDS, STRONG OXIDIZERS, HALOGENS AND HALOGEN COMPOUNDS.

Stability Condition to Avoid:TEMPERATURES ABOVE 120F (49C)

Hazardous Decomposition Products:HYDROCHLORIC AND HYDROFLUORIC ACIDS, CARB

ON MONOXIDE AND CARBON DIOXIDE, POSSIBLY CARBONYL HALIDES AT HIGH TEMPERATURES.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:SEE HEALTH HAZARDS.

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

Ecological:AQUATIC TOXICITY: NONE KNOWN OR REPORTED.

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

Waste Disposal Methods:SPILLED MATERIAL COLLECTED IN ABS ORBENT MATERIAL

SHOULD BE TRANSFERRED TO STEEL DISPOSAL OR RECOVERY DRUMS. IF THIS PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED UNDER 40 CFR 261(D). DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.

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

Transport Information:DOT PSN: CONSUMER COMMODITY, ORM-D

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

SARA Title III Information:

CERCLA SECTION 103 (40CFR302.4): N SARA

SECTION 302/304: NO EHS LISTED. SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21): CLASSIFIED AS A HEALTH & PHYSICAL HAZARD. SEC 313: THIS MATERIAL DOES NOT CONTAIN CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SEC 313 & 40CFR 372. AND CERCLA (40CFR 302).

Federal Regulatory Information:TSCA INVENTORY STATUS: THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. AND MITI (JAPAN). EINECS AND DSL INVENTORIES.

State Regulatory Information:CALIFORNIA PROPOSITION 65 - THIS PRODUCT NOT KNOWN TO CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS AND OTHER REPRODUCTIVE HARM. MASSACHUSETTS AND PENNSYLVANIA RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST: MOLYBDENUM DISULFIDE, I,1-DIFLUOROETHANE AND DIMETHYL ETHER.

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

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

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