

ANDPAK-EMA INC ZIP-CHEM PRODUCTS INC DIV -- MOLY OIL SPRAY,D-5330 NS,63 2060 --
9150-00-163-9036

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

Product ID:MOLY OIL SPRAY,D-5330 NS,63 2060

MSDS Date:03/28/1996

FSC:9150

NIIN:00-163-9036

MSDS Number: CGWZK

=== Responsible Party ===

Company Name:ANDPAK-EMA INC ZIP-CHEM PRODUCTS INC DIV

Address:1860 DOBBIN DR

City:SAN JOSE

State:CA

ZIP:95133

Country:US

Info P

Phone Num:408-729-0291

Emergency Phone Num:408-729-0291/800-424-9300(CHEMTREC)

Preparer's Name:JASON SMITH

CAGE:EO371

=== Contractor Identification ===

Company Name:ANDPAK-EMA INC ZIP-CHEM PRODUCTS INC DIV

Address:1860 DOBBIN DR

Box:City:SAN JOSE

State:CA

ZIP:95133

Country:US

Phone:408-729-0291/272-8007

CAGE:EO371

Company Name:ANDPAK-EMA INC, ZIP-CHEM PRODUCTS DIV

Address:400 JARVIS DR

Box:City:MORGAN HILL

State:CA

ZIP:95037

Country:US

Phone:408-782-2500/ 800-646-2661

CAGE:8E913

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Composition/Information on Ingredients =====

Ingred Name:1,1-DIFLUOROETHANE/ETHANE, 1,1-DIFLUORO
CAS:75-37-6
RTECS #:KI1410000
Fraction by Wt: 35%
Other REC Limits:NONE RECOMMENDED

Ingred Name:DIMETHYL ETHER
CAS:115-10-6
RTECS #:PM4780000
Fraction by Wt: 55%
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards A

cute and Chronic:TARGET ORGANS:EYE, SKIN, CNS, LUNG,
HEART & GI TRACT. ACUTE- MAY CAUSE EYE IRRITATION. HARMFUL IF
INHALED. HIGH CONCENTRATIONS MAY CAUSE HEART IRREGULARITIES,
UNCONSCIOUSNESS, EVEN DEATH. SKIN CONTACT WITH LIQUID CAUSES
FROSTBITE. HARMFUL IF SWALLOWED. MAY CAUSE LIVER EFFECTS. CHRONIC-
UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, DROWSINESS, DIZZINESS, NAUSEA,
VOMITING, HEADACHE, WEAKNESS, ABDOMINAL DISCOMFORT, DRYNESS
OF
SKIN, ABDOMINAL PAIN, TEARING, BLURRED VISION, UNCONSCIOUSNESS,
DEATH

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING
DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, HEART, CNS MAY HAVE
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:FLUSH WITH
WATER. TREAT FOR FROSTBITE IF NEEDED. EYE:IMMEDIATELY FLUSH WITH

WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. ORAL:NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE. CONSULT A PHYSICIAN.

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

Flash Point:FLAMMABLE AEROSO

Lower Limits:3.4%

Upper Limits:18.0%

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, SAND, ALCOHOL FOAM, DRY CHEMICAL. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.

Fire Fighting Procedures:DO NOT ENTER ANY ENCLOSED OR CONFINED AREA

WITHOUT PROPER PROTECTIVE EQUIPMENT AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND).

Unusual Fire/Explosion Hazard:AEROSOL CANS UNDER PRESSURE AND CONTAINS FLAMMABLE GAS. CANS MAY RUPTURE OR EXPLODE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. REMOVE LEAKING CONTAINER OUTDOOR/UNDER THE HOOD. SOAK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, VERMICULITE. PLACE IN CONTAINER. PREVENT LIQUID FROM ENTERING SEWERS.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, VENTILATED AREA AWAY FROM IGNITION SOURCES & INCOMPATIBLES. KEEP OUT OF REACH OF CHILDREN. DO NOT STORE ABOVE 120F/IN DIRECT SUNLIGHT.

Other Precautions:FLAMMABLE. EMPTY CONTAINERS RETAIN RESIDUE. FOLLOW ALL PRECAUTION

S. DO NOT GET IN EYES. DO NOT BREATHE VAPOR OR MIST.

AVOID PROLONGED OR REPEATED SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY.

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

Respiratory Protection:IF WORKING IN CONFINED AREAS, IF EXCESSIVE MISTING IS EXPECTED OR IF EXPOSURE MAY OR DOES EXCEED RECOMMENDED PERMISSIBLE EXPOSURE LIMITS (PEL), WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Ventilation:MECHANICAL (GENERAL AND

/OR LOCAL EXHAUST, EXPLOSION-PROOF)

VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: BUTYL IF REPEATED CONTACT POSSIBLE

Eye Protection: SAFETY GLASSES/GOGGLES RECOMMENDED

Other Protective Equipment: EYE WASH STATION, SAFETY SHOWER,
INDUSTRIAL-TYPE WORK CLOTHING, APRON

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

Supplemental Safety and Health

FLAMMABLE AEROSOL AS DETERM

INED BY THE FLAME PROJECTION TEST. CONTAINS

MORE THAN 45% BY WEIGHT FLAMMABLE COMPONENTS.

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

HCC: V3

NRC/State Lic Num: NOT RELEVANT

Boiling Pt: -25.C, -13.F

Vapor Density: >1

Spec Gravity: 0.8

VOC Pounds/Gallon: 405

VOC Grams/Liter: 3.38

Viscosity: NOT KNOWN

Evaporation Rate & Reference: >1 (ETHER=1)

Solubility in Water: NEGLIGIBLE

Appearance and Odor: COLORLESS LIQUID - ETHEREAL ODOR

===== Stability and Reactivity

Data =====

Stability Indicator/Materials to Avoid: YES

ALKALI OR ALKALINE EARTH METALS-POWDERED ALUMINUM, ZN, BE, ETC.

Stability Condition to Avoid: HEAT, SPARKS, FLAMES, RED HOT SURFACES AND
OTHER SOURCES OF IGNITION

Hazardous Decomposition Products: HYDROCHLORIC AND HYDROFLUORIC ACIDS
AND POSSIBLY CARBONYL HALIDES

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

Waste Disposal Methods: DISPOSAL SHOULD BE IN ACCORDANCE WITH ALL LOCAL,
STATE AND FEDERAL

REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.
WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE.

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