

CLIMAX MOLYBDENUM MARKETING CORP/CYPRUS CLIMAX METALS CO -- MOLYSULFIDE --
6810-00-264-6715

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

Product ID:MOLYSULFIDE

MSDS Date:01/15/1999

FSC:6810

NIIN:00-264-6715

Status Code:A

MSDS Number: CLNSM

=== Responsible Party ===

Company Name:CLIMAX MOLYBDENUM MARKETING CORP/CYPRUS CLIMAX METALS CO

Address:1501 W. FOUNTAINHEAD PARKWAY

Box:22015

City:TEMPE

State:AZ

ZIP:85

285-2015

Country:US

Info Phone Num:480-929-4400

Emergency Phone Num:480-929-4400/202-483-7616 (INTL)

Preparer's Name:NOT PROVIDED

CAGE:UO282

=== Contractor Identification ===

Company Name:CLIMAX MOLYBDENUM MARKETING CORP/CYPRUS CLIMAX METALS CO

Address:1501 W. FOUNTAINHEAD PARKWAY

Box:22015

City:TEMPE

State:AZ

ZIP:85285-2015

Country:US

Phone:480-929-4400

CAGE:UO282

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

Ingred Name:MOLYBDENUM DISULFIDE

CAS:1317-33-5

RTECS #:QA4697

000

> Wt:98.

Other REC Limits:NOT PROVIDED

OSHA PEL:10 MG/M3 (TDUST)

ACGIH TLV:10 MG/M3 (TDUST)

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

LD50 LC50 Mixture:NOT PROVIDED

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: NO SPECIFIC DATA AVAILABLE.

INSOLUBLE MOLYBDENUM COMPOUNDS ARE CHARACTERIZED BY LOW TOXICITY.

SKIN: DERMATITIS HAS NOT BEEN REPORTED IN EXPOSED WORKERS. EYE: NO SPECIFIC DATA AVAILABLE. SOME IN

SOLUBLE MOLYBDENUM COMPOUNDS ARE

IRRITATING TO THE EYES. INGESTION: NO DATA AVAILABLE. CHRONIC: 25 ONE-HOUR EXPOSURES TO 490 MG/M3 CAUSED NO EFFECTS IN ALL THE ANIMALS TESTED EXCEPT ONE WHICH DIED AFTER THE THIRD EXPOSURE.

SKIN: NO DATA AVAILABLE. EYE: NO DATA AVAILABLE. INGESTION: RATS FED UP TO 500 MG DAILY FOR 44 DAYS SHOWED NO TOXIC SIGNS AND ALL GAINED WEIGHT.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:NOT PROVIDED

Medical Cond Aggravated by Exposure:

re:NOT PROVIDED

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

First Aid:INHALATION: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.

SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNT OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15 - 20 MINUTES). GET MEDICAL ATTENTION. EYE: WASH EYES IMMEDIATELY WITH

LARGE AMOUNT OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15 - 20 MINUTES). GET MEDICAL ATTENTION. INGESTION: IF VOMITING OCCURS, KEEP HEAD LOWER THAN HIPS. GET MEDICAL ATTENTION.

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

Extinguishing Media:DRY CHEMICAL, WATER SPRAY OR REGULAR FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM.

Fire Fighting Procedures:

NO ACUTE HAZARD. MOVE CONTAINER FROM FIRE AREA
IF POSSIBLE. AVOID BREATHING VAPORS OR DUSTS. KEEP UPWIND.
Unusual Fire/Explosion Hazard:SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT
OR FLAME.

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

Spill Release Procedures:FOR LARGE SPILLS, SWEEP UP WITH A MINIMUM OF
DUSTING AND PLACE INTO SUITABLE CLEAN DRY CONTAINERS FOR
RECLAMATION OR LATER DISPOSAL. RESIDUE SHOULD BE CLEANED UP USING A
HIGH EFFIEIENCY PARTICULATE F
I LTER VACUUM.
Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:OBSERVE NATIONAL AND REGIONAL
PROVISIONS IN FORCE. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.
Other Precautions:NOT PROVIDED

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

Respiratory Protection:USE RESPIRATOR SUITABLE FOR LEVELS OF DUST/FUME
IN THE WORK ENVIRONMENT. FOR FIREFIGHTING AND OTHER IMMEDIATELY
DANGEROUS
TO LIFE OR HEALTH CONDITIONS: ANY SELF CONTAINED
BREATHING APPARATUS THAT HAS A FULL FACE PIECE AND IS OPERATED IN
A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.
Ventilation:PROVIDE LOCAL EXHAUST VENTILATION AND/OR GENERAL DILUSTION
VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.
Protective Gloves:PROTECTIVE GLOVES NOT REQUIRED BUT RECOMMENDED
Eye Protection:SPLASH-PROOF OR DUST-RESISTAND SAFETY GOGGLES TO PREVENT
EYE CONTACT.
Other Protective Equipment:EYE WASH FOUNTAIN WITH
IN THE IMMEDIATE WORK
AREA. PROTECTIVE CLOTHING NOT REQUIRED. AVOID REPEATED OR PROLONGED
CONTACT WITH THIS SUBSTANCE.
Work Hygienic Practices:NOT PROVIDED
Supplemental Safety and Health
ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K =
UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT
DETERMINED. N/E = NOT ESTABLISHED.

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

HCC:N1
NRC/State Lic Num:NOT RELEVANT
Melt/Freeze Pt:>315.C, 599.F
M

.P/F.P Text:(OXIDIZES)

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:APPROX 0 @ 20 DEG C

Spec Gravity:4.80 @ 14 DEG C

Solubility in Water:INSOLBULE

Appearance and Odor:ODORLESS, DARK GREY TO BLACK POWDER

Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES

HYDROGEN PEROXIDE, OXIDIZERS (STRONG), POTASSIUM NITRATE.

Stability Condition to Avoid:PREVENT DISPERSION OF DUST IN AIR. STABLE

UNDER NORMAL TEMPERA

TURES AND PRESSURES.

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY RELEASE

TOXIC AND/OR HAZARDOUS GASES. THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF SULFUR.

Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION HAS NOT

BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

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

Toxicological Information:ACUTE: NO SPECIFIC DATA AVAILABLE. INSOLUBLE

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ARACTERIZED BY LOW TOXICITY. SKIN:

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ONE-HOUR EXPOSURES TO 490 MG/M3 CAUSED NO EFFECTS IN ALL THE

ANIMALS TESTED EXCEPT ONE WHICH DIED AFT ER THE THIRD EXPOSURE.

SKIN: NO DATA AVAILABLE. EYE: NO DATA AVAILABLE. INGESTION: RATS

FED UP TO 500 MG DAILY FOR 44 DAYS SHOWED NO TOXIC SI

GNS AND ALL

GAINED WEIGHT. TARGET ORGANS:NO DATA AVAILABLE .

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

Ecological:UP TO 750 MG/L RESULTED NO MORTALITY TO RAINBOW TROUT.

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

Waste Disposal Methods:OBSERVE NATIONAL AND REGIONAL PROVISIONS IN FORCE.

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

Transport Information:NO CLASSIFICATION CURRENTLY ASSIGNED.

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=== Regulatory Information =====

SARA Title III Information:NOT PROVIDED

Federal Regulatory Information:NOT PROVIDED

State Regulatory Information:NOT PROVIDED

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

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