

NOAH TECHNOLOGIES CORP -- MOLYBDENUM (IV) SULFIDE -- 6810-00-816-1025

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Product Identification  
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Product ID:MOLYBDENUM (IV) SULFIDE

MSDS Date:11/19/1999

FSC:6810

NIIN:00-816-1025

MSDS Number: CLCTS

=== Responsible Party ===

Company Name:NOAH TECHNOLOGIES CORP

Address:1NOAH PARK

City:SAN ANTONIO

State:TX

ZIP:78249

Country:US

Info Phone Num:210-691-2000

Emergency Phone Num:(800)424-9300

Pre

parer's Name:NOT PROVIDED

Chemtrec Ind/Phone:(800)424-9300

CAGE:61665

=== Contractor Identification ===

Company Name:NOAH TECHNOLOGIES CORP

Address:1NOAH PARK

Box:City:SAN ANTONIO

State:TX

ZIP:78249

Country:US

Phone:210-691-2000

Contract Num:SP0450-01-M-ZA82

CAGE:61665

Company Name:NOAH TECHNOLOGIES CORP

Address:1NOAH PARK

Box:City:SAN ANTONIO

State:TX

ZIP:78249

Country:US

Phone:210-691-2000

Contract Num:SP0450-01-M-ZD38

CAGE:61665

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Composition/Information on Ingredients  
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Ingred Name:MOS2/MOLYBDENUM DISULFIDE  
CAS:1317-33-5  
RTECS #:QA4697000  
= Wt:100.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:10 MG/M3 (TDUST)  
ACGIH TLV:10 MG/M3

===== 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.  
EYE CONTACT: ACUTE - SOME INSOLUBLE COMPOUNDS ARE IRRITATING TO THE  
EYES. CHRONIC - NO DATA AVAILABLE. INGESTION: ACUTE - NO DATA  
AVAILABLE. CHRONIC - RATS FED UP TO 500 MG DAILY FOR 44 DAYS SHOWED  
NO TOXIC SIGNS AND ALL GAINED WEIGHT.  
Explanation of Carcinogenicity:NONE LISTED.  
Effects of Overexposure:NOT PROVIDED  
Medical Cond Aggravated by Exposure:NOT PROVIDED

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

First Aid:INGESTION: GET MEDICAL ATTENTION IF NEEDED. IF VOMITING  
OCCURS, KEEP HEAD LOWER THAN HIPS TO PREVENT ASPIRATION. DERMAL:  
FLUSH WITH SOAP AND WATER. FOR SYMPTOMS OF EXPOSURE CONSULT A  
PHYSICIAN. EYE CONTACT: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15  
MINUTES. FOR SYMPTOMS OF EXPOSURE CONSULT A PHYSICIAN. INHALATION:  
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.  
GIVE OXYGEN, GET MEDICAL ATTENTION.

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

Flash Point:NON-FLAMMABLE.  
Extinguishing Media:WATER SPRAY. U

SE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures:WEAR SCBA. COMBUSTION OF THIS MATERIAL WILL PRODUCE SULFUR DIOXIDE. ALWAYS WEAR FULL PROTECTIVE GEAR IN FIRE SITUATION.

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

Spill Release Procedures:SWEEP OR SCOOP UP AND REMOVE. USE VACUUM SYSTEM EQUIPPED WITH HEPA FILTER TO CLEAN UP SPILLS. AVOID RAISING A DUST. ALWAYS WEAR PPE. PLACE IN SUITABLE CONTAINERS FOR PROPER DISPOSAL.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL DRY AREA. KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions:WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT BREATHE DUST, VAPOR, MIST, GAS. ALWAYS WEAR PROTECTIVE CLOTHING.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR FOR DUST IF ABOVE TLV. FILTER-DUST, FUME, MIST.

Ventilation:ALWAYS MAINTAIN EXPOSURE BELOW PERMISSIBLE EXPOSURE LIMITS. USE WITH ADEQUATE VENTILATION.

Protective Gloves:NATURAL RUBBER, IMPERVIOUS

Eye Protection:GOGGLES

Other Protective Equipment:SUFFICIENT TO PREVENT CONTACT. EMERGENCY EYEWASH AND SAFETY SHOWER.

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. SCBA = SELF CONTAINED BREATHING APPARATUS. PPE=PERSONAL PROTECTIVE EQUIPMENT.

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

HCC:N1

NRC/State Lic Num:NOT RELEVANT

Melt/Freeze Pt:M.P/F.P Text:DEC.

Decomp Temp:=-1185.C, 2165.F

Spec Gravity:4.80

Solubility in Water:INSOLUBLE

Appearance and Odor:BLUE-GRAY TO BLACK,CRYSTALLINE POWDER.

Corrosion Rate:NOT PROVIDED

===== Stability and

Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZERS. MIXTURES WITH POTASSIUM NITRATE ARE EXPLOSIVE.  
VIOLENT REACTION WITH H<sub>2</sub>O<sub>2</sub>.

Stability Condition to Avoid: THERMAL DECOMPOSITION

Hazardous Decomposition Products: SO<sub>2</sub> AND MO.

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

Toxicological Information: ACUTE: NO SPECIFIC DATA AVAILABLE. INSOLUBLE  
MOLYBDENUM COMPOUNDS ARE CHARACTERIZED BY LOW TOXICITY. CHRONIC: 25  
ONE-HOUR EX

POSURE TO 490 MG/M<sup>3</sup> CAUSED NO EFFECTS IN ALL THE ANIMALS  
TESTED EXCEPT ONE WHICH DIED AFTER THE THIRD EXPOSURE. EYE  
CONTACT: ACUTE - SOME INSOLUBLE COMPOUNDS ARE IRRITATING TO THE  
EYES. CHRONIC - NO DATA AVAILABLE. INGESTION: ACUTE - NO DATA  
AVAILABLE. CHRONIC - RATS FED UP TO 500 MG DAILY FOR 44 DAYS  
SHOWED NO TOXIC SIGNS AND ALL GAINED WEIGHT.

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

Ecological: NOT PROVIDED

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

Waste Disposal Methods: CONSULT FEDERAL, STATE AND LOCAL AUTHORITIES FOR  
PROPER DISPOSAL PROCEDURES.

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

Transport Information: DOT CLASSIFICATION: NOT REGULATED.

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

SARA Title III Information: PRODUCT IS NOT REGULATED UNDER SECTIONS 103,  
302, 304, 311, 312, OR 313.

Federal Regulatory Information: PRODUCT IS LISTED ON THE TSCA  
INVENTORY.

State Regulatory Information: NOT REGULATED UNDER CALIFORNIA PROPOSITION  
65.

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

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