

## **ZINC SELENIDE (ZNSE)**

### **MSDS Number**

BSBFL

### **National Stock Number**

6810-00D003129

### **Product Name**

ZINC SELENIDE (ZNSE)

### **Manufacturer**

II VI INC

### **Product Identification**

Product ID:ZINC SELENIDE (ZNSE)

MSDS Date:02/01/1993

FSC:6810

NIIN:00D003129

MSDS Number: BSBFL

### **Responsible Party**

II-VI INC

375 SAXONBURG BLVD

SAXONBURG , PA 16056

US

Emergency Phone: 412-352-4455

Info Phone: 412-352-4455

Preparer: HERMAN E.REEDY

Cage: 57128

### **Contractor**

II-VI INC

SAXONBURG, PA 16056

US

412-352-4455

Cage: 57128

### **Ingredients**

ZINC (SARA III)

CAS: 7440-66-6

RTECS: ZG8600000

Fraction By Weight: 50%

OSHA PEL10 MG ZNO/M3

ACGIH TLV: 10 MG ZNO/M3; 9293

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

SELENIUM (SARA III)

CAS: 7782-49-2

RTECS: VS7700000

Fraction By Weight: 50%

OSHA PEL0.2 MG/M3

ACGIH TLV: 0.2 MG/M3; 9293

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

## Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:HEALTH HAZARDS ARE NOT KNOWN, BUT SOME ZINC AND SELENIUM CAN BE FORMED, SUCH AS: ZINC OXIDE- CHILLS AND FEVER. SELENIUM AND COMPOUNDS- ACUTE EXPOSURE MIGHT PRODUCE STERNAL PAIN, COUGH, NAUSEA, PALLOR, COATED TONGUE, GI DISORDERS, NERVOUSNESS, CONJUNCTIVITIS. A GARLIC ODOR OF BREATH OR SWEAT MAY OCCUR.

Effects of Overexposure:HEALTH HAZARDS ARE NOT KNOWN, BUT SOME ZINC AND SELENIUM CAN BE FORMED, SUCH AS ZINC OXIDE-CHILLS AND FEVER.

SELENIUM AND COMPOUNDS- STERNAL PAIN, COUGH, NAUSEA,PALLOR, COATED TONGUE, GI DISORDERS, NERVOUSNESS, CONJUNCTIVITIS, GARLIC ODOR OF BREATH OR SWEAT.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

## First Aid

First Aid:WHEN PRODUCT IS IN DUST FORM. EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: WASH AREA WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR.

TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION. INGESTION: GET MEDICAL ATTENTION.

## Fire Fighting

Flash Point:NOT FLAMMABLE

Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.

Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.

Unusual Fire/Explosion Hazard:NOT FLAMMABLE AND NOT EXPLOSIVE.

## Accidental Release

Spill Release Procedures:IF PARTS ARE DROPPED OR OTHERWISE BROKEN, SWEEP UP PIECES WHICH MAY HAVE SHARP EDGES AS ONE WOULD CLEAN UP BROKEN GLASS AND SAFELY TRANSFER TO DISPOSAL CONTAINER. LARGE PIECES MAY HAVE SALVAGE VALUE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:IF MATERIAL MACHINED, GROUND OR POLISHED, PROCESSES SHOULD BE DONE WET SO AS TO MINIMIZE DUST WHICH COULD RESULT IN INHALATION.

Other Precautions:GOOD WORK PRACTICES SUCH AS KEEPING HANDS CLEAN AND NOT LETTING SLURRY SPLASH SIGNIFICANTLY SHOULD BE FOLLOWED SO THAT TRANSFERRAL TO MOUTH BY CONTAMINATION ON THE HANDS OR CLOTHING FOLLOWED BY INGESTION WILL NOT OCCUR.

## Exposure Controls

Respiratory Protection:USE OSHA APPROVED RESPIRATORY APPARATUS WITH FUME TYPE CARTRIDGE. IN CASE OF VAPORIZATION: LEAVE ROOM AND ALLOW DUST TO SETTLE. CLEAN ALL SURFACES. IF ROOM HAS VENTILATION, ALLOW FOR SEVERAL AIR CHANGES.

Ventilation:LOCATE EXHAUST VENTILATION NEAR AREA OF ZINC SELENIDE PROCESSING OR USE EXHAUST IF PRODUCT FAILURE BY MELTING IS LIKELY.

Protective Gloves:WEAR GLOVES FOR HANDLING BROKEN PIECES.

Eye Protection:SAFETY GLASSES IF MACHINING,GRINDING,ETC

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH HANDS AND FACE AFTER HANDLING MATERIAL DURING MACHINING, GRINDING, POLISHING AND BEFORE EATING, DRINKING,

SMOKING.  
Supplemental Safety and Health  
NONE

## Chemical Properties

HCC:N1  
Boiling Pt:B.P. Text:SUBLIMES  
Melt/Freeze Pt:M.P/F.P Text:2777F,1525C  
Spec Gravity:5.27  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:YELLOW TRANSPARENT SOLID. ODORLESS.

## Stability

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS, STRONG BASES.  
Stability Condition to Avoid:EXTREME HEAT GREATER THAN 500C COULD  
RESULT IN DECOMPOSITION.  
Hazardous Decomposition Products:SELENIUM/OXIDES OF SELENIUM, ZINC  
OXIDE.  
Conditions to Avoid Polymerization:WILL NOT OCCUR.

## Disposal

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE  
AND FEDERAL REGULATIONS.

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