

## **Material Safety Data Sheet**

Identity: Zinc selenide

Formula: ZnSe

### SECTION I - GENERAL INFORMATION

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight:

Chemical Family: Inorganic Crystalline

CAS #	OSHA PEL	ACGIH TLV	Other	%
1315-09-9				100%

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Transparent Solid

Boiling Point: N/A

Vapor Pressure: Negligible

Melting Point: 1520 °C

Vapor Density: N/A

Evaporation Rate: N/A

Percent Volatile: N/A

Solubility in water: Insoluble

Specific Gravity: 5.3

*Appearance and odor:* Reddish yellow, Transparent Solid, no odor

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

*Flash Point:* No data

*Flammable Limits:* NA

*Method Used:*

*Explosive Limits:* LEL:

UEL:

*Extinguishing Media:* Do not burn.

*Unusual Fire Explosion Hazard:*

May liberate irritating or toxic vapors during combustion or decomposition.

SECTION V - REACTIVITY DATA

*Stability:* Stable

*Conditions to Avoid:* Acids, strong bases.

*Incompatibility (Materials to Avoid):* Exposure to incompatible materials

*Hazardous Decomposition or Byproducts:*

*Hazardous Polymerization:* Will not occur

*Conditions to avoid (hazardous polymerization):*

*Decomposition:* If heated greater than 800 °C, in an inert atmosphere, produces sublimation, products of zinc and selenium fumes.

SECTION VI - HEALTH HAZARD DATA

*Routes of entry:* Inhalation? Yes      Skin? Yes      Eyes? Yes

*Emergency and First Aid Procedures:* Call physician immediately.

*Eye:* Flush with water for 15 minutes. If irritation develops, call a physician.

*Skin:* Remove contaminated clothing and shoes. Wash area with soap and water. Wash contaminated clothing before reuse.

*Inhalation:* Remove to fresh air. If not breathing, give artificial respiration.

*Carcinogenicity:* NTP? No      OSHA Regulated? No

*Medical Conditions Aggravated by Exposure:*

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

*Special Precautions:* If airborne concentration exceeds limits, evacuate employees and ventilate area.

*Waster disposal Method:* Dispose of in accordance with local, state, and federal regulations.

*In case of spill or leakage:* Shovel or vacuum spilled product and place in closed container for further handling and disposal.

SECTION VIII - CONTROL MEASURES
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*Respiratory Protection:* Dust respirator.

*Protective Equipment:* Gloves, safety glasses with side shields.

*Work/Hygienic/Maintenance Practices:*

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established
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