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MATERIAL SAFETY DATA SHEET

Section 1- PRODUCT IDENTIFICATION

COMPOSITION PbS	PRODUCT NAME Lead Sulfide
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Section 2- HAZARDOUS INGREDIENTS

Note: Products under normal conditions do not represent an inhalation, ingestion or contact health hazard.

MATERIAL OR COMPONENT	CAS NUMBER	WT%	EXPOSURE LIMITS	
			OSHA PEL (Mg/M3)	ACGIH TLV(MG/M3)
PbS	1314-87-0	100	0.2mg(Pb)/m³	not set

Section 3- PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS) <input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	APPEARANCE AND ODOR: Silver metallic crystals or black powder. "Rotten Egg" Odor.
MELTING POINT (BASE METAL): 1114°C	SPECIFIC GRAVITY 7.5gm/cc

Section 4- FIRE AND EXPLOSION

Flash Point (Method Used) N/A	Flammable Limits See below	LEL N/A	UEL N/A
EXTINGUISHING MEDIA Do not use water. Use dry chemical Co2.			
SPECIAL FIRED FIGHTING PROCEDURES Wear full face self contained breathing apparatus and full protective clothing.			
UNUSUAL FIRE AND EXPLOSION HAZARDS When heated to decomposition, PbS emits very toxic lead oxide fumes of Sb and SOx. Can react with water, steam, or acids to produce toxic and flammable gas, creating fire and explosion hazards.			

Section 5- REACTIVITY DATA

STABILITY Unstable	INCOMPATIBILITY (MATERIALS TO AVOID) ICI, H2O2, strong acids, moisture & air.
CONDITIONS TO AVOID Heat, flames and incompatible materials	
HAZARDOUS DECOMPOISTION PRODUCTS Pb, PbO, S & SOx	

Section 6- HEALTH HAZARD GUIDE

MAJOR EXPOSURE HAZARD

Inhalation Skin Skin Absorption Eye Contact Ingestion

EFFECTS OF OVEREXPOSURE

INHALATION: May cause sneezing, coughing, difficulty breathing and irritation of the mucous membrane of the respiratory tract.

SKIN CONTACT: May cause irritation, itching and dermatitis.

EYE CONTACT: May cause burning sensation, irritation, redness and watering.

OTHER: Sulfides: The alkaline sulfides are similar in action to alkalis. They cause softening and irritation of the skin. If taken orally, they are corrosive and irritating through the liberation of hydrogen sulfide and free alkali. Sulfides of the heavy metals are generally insoluble and hence have little toxic action except through the liberation of hydrogen.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory Disorders.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove from exposed area to fresh air immediately. If breathing is difficult, give oxygen.

SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap or mild detergent.

EYE CONTACT: Flush eyes with lukewarm water for 15 minutes.

INGESTION: Give 1-2 glasses of milk or water to induce vomiting.

Section 7- SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCEDURES

Wear a self-contained breathing apparatus and full protective clothing. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency unit and place in a container for disposal. Insure that water/moisture is kept out of the area.

WASTE DISPOSAL METHODS

Dispose in accordance with federal, state and local regulations.

Section 8- SPECIAL PROTECTION

RESPIRATORY

NIOSH approved dust-mist-fume cartridge respirator.

VENTILATION

Local exhaust to maintain level below the TLV. Handle in a dry, inert controlled environment. Mechanical ventilation is not recommended.

EYE PROTECTION & PROTECTIVE CLOTHING

Safety glasses and neoprene gloves are recommended.

Section 9- SPECIAL PRECAUTIONS

Store in a tightly closed container; in a cool dry place. Wash hands and face thoroughly after handling and before eating.

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