

# MATERIAL SAFETY DATA SHEET

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## SECTION A: PRODUCT INFORMATION

TRADE NAME : PHOSPHORESCENT PIGMENT 6SSU REVISION DATE : SEPTEMBER 27, 2006  
CAS NUMBER : 68611-70-1  
SYNONYMS : PHOSPHORESCENT PIGMENT 6SSUY or GSS  
CHEMICAL FAMILY : ZINC SULFIDE COPPER DOPED  
FORMULA : ZnS:Cu

## SECTION B: HAZARDOUS COMPONENTS

COMPONENT	CAS NO.	%	PEL/TLV
AS NUISANCE PARTICULATES OR PARTICULATES NOT OTHERWISE REGULATED			15 mg/m <sup>3</sup> OSHA TWA, TOTAL DUST 5 mg/m <sup>3</sup> OSHA TWA, RESPIRABLE FRACTION

## SECTION C: PHYSICAL PROPERTIES

BOILING POINT (°C) :	N/A	SPECIFIC GRAVITY :	4.1
MELTING POINT (°C) :	DISSOCIATES @ 1200°C	FREEZING POINT (°) :	N/A
VAPOR PRESSURE (mm Hg) :	N/A	PERCENT VOLATILE (BY WT.) :	N/A
VAPOR DENSITY (AIR=1) :	N/A	EVAPORATION RATE :	N/A
SOLUBILITY IN WATER :	NEGLIGIBLE (<1%)	pH ( % IN WATER) :	N/A
ODOR THRESHOLD :	NO ODOR		
APPEARANCE & ODOR :	LIGHT YELLOW COLORED POWDER (YELLOW GREEN EMISSION COLOR); NO ODOR		

## SECTION D: FIRE & EXPLOSION DATA

FLAMMABLE LIMITS :	FLASH POINT (°) :	N/A	
EXTINGUISHING MEDIA :	LEL : (N/A)	UEL : (N/A)	AUTO IGNITION TEMP (° F) : (N/A)
	WATER : ( )	FOAM : (X)	CO <sub>2</sub> : (X) DRY CHEMICAL : (X)

SPECIAL FIRE FIGHTING PROCEDURES : WEAR SELF CONTAINED BREATHING APPARATUS OR NIOSH APPROVED TOXIC VAPOR RESPIRATOR AND FULL PROTECTIVE CLOTHING.  
UNUSUAL FIRE & EXPLOSION HAZARDS : HEAT CAN RELEASE TOXIC FUMES OF HYDROGEN SULFIDE GAS ON CONTACT WITH MOISTURE OR ACID. NO EXPLOSION HAZARD.

## SECTION E: REACTIVITY DATA

STABILITY :	STABLE
INCOMPATIBILITY :	CONTACT WITH ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS :	HYDROGEN SULFIDE GAS; THERMAL DECOMPOSITION MAY EVOLVE ZnO, SO <sub>2</sub>
HAZARDOUS POLYMERIZATION :	WILL NOT OCCUR
CONDITIONS TO AVOID :	CONTACT WITH ACIDS

## SECTION F: PERSONAL PROTECTIVE EQUIPMENT INFO

RESPIRATORY EQUIPMENT :	NIOSH APPROVED RESPIRATOR TYPE SPECIFIED BY AIRBORNE PARTICULATE COUNT
PROTECTIVE GLOVES :	PLASTIC OR NEOPRENE GLOVES
EYE PROTECTION :	CHEMICAL GOGGLES OR SAFETY GLASSES
VENTILATION :	LOCAL EXHAUST/MECHANICAL(GENERAL) TO MAINTAIN AIRBORNE CONCENTRATIONS TO PERMISSIBLE EXPOSURE LEVELS (SEE SECTION B).
OTHER PROTECTIVE EQUIPMENT :	COVERALLS; LAB COAT; EYE WASH FOUNTAIN



**SECTION G. HEALTH HAZARD DATA**

**THRESHOLD LIMIT VALUE :** NONE ESTABLISHED FOR PRODUCT (SEE SECTION B)  
**PRIMARY ROUTES OF EXPOSURE :** INHALATION, INGESTION, SKIN AND EYE CONTACT  
**ORAL LD<sub>50</sub> :** >15,000 mg/kg (RAT)  
**DERMAL IRRITATION-RABBIT :** NON-IRRITANT  
**EYE IRRITATION-RABBIT :** NON-IRRITANT  
**OSHA PEL :** 15 mg/m<sup>3</sup> TWA, TOTAL DUST; 5 mg/m<sup>3</sup> TWA, RESPIRABLE FRACTION  
**ACGIH TLV :** NONE ESTABLISHED FOR PRODUCT  
**EFFECTS OF OVEREXPOSURE :** AS INORGANIC DUST, MAY CAUSE MECHANICAL IRRITATION TO EYES, SKIN, & MUCOUS MEMBRANES.  
**KNOWN EFFECTS ON OTHER ILLNESSES :** MAY AGGRAVATE PRE-EXISTING RESPIRATORY PROBLEMS  
**LISTED CARCINOGEN :** NONE (X) OSHA ( ) NTP ( ) IARC ( ) OTHER ( )

**SECTION H. EMERGENCY & FIRST AID DATA**

**SKIN :** REMOVE CONTAMINATED CLOTHING AND WASH OFF WITH PLENTY OF SOAP AND WATER. IF IRRITATION OCCURS AND PERSISTS, CONTACT PHYSICIAN.  
**EYES :** FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS. IF IRRITATION OCCURS, CONTACT PHYSICIAN.  
**INHALATION :** REMOVE TO FRESH AIR. GIVE OXYGEN IF NECESSARY AND SEEK MEDICAL ATTENTION.  
**INGESTION :** IF CONSCIOUS, DRINK QUANTITIES OF WATER TO DILUTE. INDUCE VOMITING ONLY UNDER THE DIRECTION OF MEDICAL PERSONNEL. PROMPTLY SEEK MEDICAL ATTENTION.

**SECTION I. SPILL & DISPOSAL INFORMATION**

**STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:**  
 WEARING PROTECTIVE EQUIPMENT (SEE SECTION F), VACUUM OR SWEEP INTO LABELED CONTAINER. AVOID GENERATING DUST. AREA CAN BE DAMP MOPPED.  
**WASTE DISPOSAL INFORMATION:**  
 PLACE SOLID WASTE IN PLASTIC OR METAL CONTAINER WITH IDENTIFYING LABEL. DISPOSE OF WITH ZINC WASTES (CONSIDERED TOXIC BY EPA), PRECIPITATE WASTES FROM SUSPENSIONS OR NEUTRALIZE ACID SOLUTIONS.  
**RCRA HAZARDOUS WASTE :** NO (X) YES ( ) RCRA # : ( )  
**CERCLA :** NO ( ) YES (X) RQ (\*\*) \*\*NO REPORTABLE QUANTITY IS ASSIGNED TO THE GENERIC OR BROAD CLASS OF "ZINC AND COMPOUNDS, ALTHOUGH THE CLASS IS A CERCLA HAZARDOUS SUBSTANCE."  
 FOLLOW ALL LOCAL, STATE AND FEDERAL INFORMATION AND REGULATIONS

**SECTION J. OTHER REGULATORY INFORMATION**

**TSCA :** WE CERTIFY THAT ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCES CONTROL ACT.  
**SARA TITLE III, SECT. 313:** LISTED (X - AS ZINC COMPOUND) NOT LISTED ( )  
**HMSI:** HEALTH (0) FLAMMABILITY (0) REACTIVITY (0)  
**DOT REGULATED:** YES: ( ) NO: (X) RQ: (N/A)  
**IF REGULATED, PROPER SHIPPING NAME:** HAZARD CLASS: ( )  
**IDENTIFICATION NO.:** ( ) **PACKING GROUP:** ( ) **LABEL REQUIRED:** ( )  
**INLAND B/L:**  
**EMERGENCY RESPONSE GUIDE NO.:** ( )

**SECTION K. SPECIAL PRECAUTIONS**

**FOR INDUSTRIAL USE ONLY**

**HANDLING & STORAGE INFORMATION:**  
 STORE CLOSED IN COOL DRY AREA. WHEN HANDLING OR POURING WEAR PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION. AVOID SCATTERING INTO THE AIR.  
**OTHER PRECAUTIONS :**  
 MAINTAIN A SCHEDULE OF REGULAR HOUSEKEEPING TO ENSURE CLEANLINESS IN THE WORK AREA.

IN ACCORDANCE WITH GOOD PRACTICES OF PERSONAL HYGIENE, HANDLE WITH DUE CARE AND AVOID ANY UNNECESSARY CONTACT WITH THIS PRODUCT.

THIS INFORMATION IS BEING SUPPLIED TO YOU UNDER OSHA "RIGHT TO KNOW" REGULATION 29 CFR 1910.1200 AND IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS PRODUCT SPECIFICATION. THE INFORMATION IS BELIEVED TO BE TRUE AND ACCURATE. NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THIS DATA, THE HAZARD CONNECTED WITH USE OF THE MATERIAL, OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, IS MADE. UNITED MINERAL AND CHEMICAL CORPORATION AND ITS SUPPLIERS ASSUME NO RESPONSIBILITY FOR DAMAGE OR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

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