

MATERIAL SAFETY DATA SHEET

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SECTION A - PRODUCT INFORMATION

Trade Name: PHOSPHORESCENT PIGMENT 6SSU
 REVISION DATE: May 17, 2002
 CAS Number: 68611-70-1
 Synonyms: PHOSPHORESCENT PIGMENT 6SSUY, GSS
 Chemical Family: ZINC SULPHIDE COPPER DOPED
 Formula: ZnS:Cu

SECTION B - HAZARDOUS COMPONENTS

Components

| Components | CAS NO. | % | PEL/TLV |
|--------------------------|---------|---|--|
| AS NUISANCE PARTICULATES | | | 15mg/m ³ OSHA TWA TOTAL DUST |
| | | | 5mg/m ³ OSHA TWA RESPIRABLE FRACTION |
| | | | 10mg/m ³ ACGIH TWA INHALABLE FRACTION |
| | | | 3mg/m ³ ACGIH TWA RESPIRABLE FRACTION |

SECTION C - PHYSICAL PROPERTIES

Boiling point (C): N/A
 Melting point (C): DISSOCIATES AT 1200 degrees C
 Vapor density (mmHg): N/A
 Vapor Pressure (air=1): N/A
 Evaporation Rate: N/A
 Solubility in water: NEGLIGIBLE (<1%)
 Specific Gravity: 4.1
 Freezing point: N/A
 Percent Volatile (By wt.): N/A
 pH: (% in water): N/A
 Odor Threshold: NO ODOR
 Appearance and odor: LIGHT YELLOW COLORED POWDER (YELLOW GREEN EMISSION COLOR); NO ODOR.

SECTION D - FIRE AND EXPLOSION DATA

Flash Point: N/A

Flammable Limits in Air By Volume:
 LEL: N/A UEL: N/A

Extinguishing Media:
 FOAM, CO2, DRY CHEMICAL

Auto Ignition Temp (F): N/A

Special Firefighting Procedures:
 WEAR SELF-CONTAINED BREATHING APPARATUS OR NIOSH APPROVED TOXIC VAPOR RESPIRATOR AND FULL PROTECTIVE CLOTHING..

Unusual Fire and 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 or byproducts:
HYDROGEN SULFIDE GAS. THERMAL DECOMPOSITION MAY EVOLVE ZnO, SO₂

Hazardous polymerization: WILL NOT OCCUR

Conditions to Avoid: CONTACT WITH ACIDS.

SECTION F - PERSONAL PROTECTIVE EQUIPMENT INFO

Respiratory Equipment: NIOSH APPROVE RESPIRATOR TYPE SPECIFIED BY AIRBORNE PARTICULATE COUNT.

Ventilation: LOCAL EXHAUST/MECHANICAL (GENERAL) TO MAINTAIN AIRBORNE CONCENTRATIONS TO PERMISSIBLE EXPOSURE LEVELS (SEE SECTION B).

Protective Gloves: PLASTIC OR NEOPRENE

Eye protection: CHEMICAL GOGGLES/SAFETY GLASSES

Other protective clothing or equipment: COVERALLS, LAB COAT; EYE WASH FOUNTAIN.

SECTION G - HEALTH HAZARD DATA

Threshold Limit Value: 10 mg/m³ TWA INHALABLE FRACTION;
3 mg/m³ TWA RESPIRABLE FRACTION.

Primary Routes of Exposure: INHALATION, INGESTION, SKIN AND EYE CONTACT

ORAL LD50: >15,000 mg/kg (RAT)
DERMAL IRRITATION-RABBIT: NON IRRITANT
EYE IRRITATION-RABBIT: NON IRRITANT

OSHA PEL: (TOTAL DUST) 15mg/m³, RESPIRABLE FRACTION 5mg/m³

ACGIH TLV: 10mg/m³ TWA INHALABLE FRACTION;
3 mg/m³ TWA RESPIRABLE FRACTION

Effects of Overexposure: AS INORGANIC DUST, MAY CAUSE MECHANICAL IRRITATION TO EYES, SKIN, AND MUCOUS MEMBRANES.

Known Effects On Other Illnesses: MAY AGGRAVATE PRE-EXISTING RESPIRATORY PROBLEMS.

Listed Carcinogen?: None.

N.T.P.: NO
I.A.R.C.: NO
OSHA: NO
Other: NO

SECTION H - EMERGENCY & FIRST AID DATA

MSDS# 384526

SKIN: REMOVE CONTAMINATED CLOTHING AND WASH OFF WITH PLENTY OF SOAP AND WATER. IF IRRITATION OCCURS AND PERSISTS, CONTACT PHYSICIAN.

EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS. IF IRRITATION OCCURS, CONTACT PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. CONTACT PHYSICIAN & GIVE OXYGEN IF NECESSARY.

INGESTION: DRINK QUANTITIES OF WATER & INDUCE VOMITING. CONTACT PHYSICIAN.

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 WITH ZINC WASTES (CONSIDERED TOXIC BY EPA) PRECIPITATE WASTES FROM SUSPENSIONS OR NEUTRALIZE ACID SOLUTIONS.

RCRA Hazardous Waste: NO

RCRA #: NO

CERCLA: YES

RQ: NO REPORTABLE QUANTITY IS ASSIGNED TO THIS 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 (AS ZINC COMPOUND)

HMIS: HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

DOT Regulated: NO

RQ: NA

2000 EMERGENCY RESPONSE GUIDE NO.: NOT LISTED

HAZARD CLASS: NONE

LABEL REQUIRED: NONE

SECTION K - SPECIAL PRECAUTIONS

FOR INDUSTRIAL USE ONLY

Handling and Storage Information: STORE IN COOL DRY AREA. WHEN HANDLING OR POURING WEAR PROTECTIVE CLOTHING & 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"

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