

# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

**PRODUCT NAME:** PHOSPHORESCENT PIGMENT: 6SSU, GB-U **COMPANY:** UNITED MINERAL & CHEMICAL CORPORATION  
1050 Wall Street West, Ste. 660, Lyndhurst, NJ 07071  
**US D.O.T. / UN NAME:** NOT REGULATED FOR TRANSPORT Tel: 201-507-3300 Fax: 201-507-1506  
e-mail: inquiry@umccorp.com  
**RECOMMENDED USES:** GLOW-IN-THE-DARK PIGMENT FOR USE IN INKS, PAINTS, COATINGS, CHALKS, PLASTICS, ETC. **EMERGENCY TELEPHONE NO.:**  
USA – CHEMTREC: 1-800-424-9300  
Outside USA: +1 703-527-3887

## SECTION 2 – HAZARD IDENTIFICATION

**GHS HAZARD CLASSIFICATION:**  
NOT CLASSIFIED  
**GHS LABEL ELEMENTS:**  
SIGNAL WORD: NO SIGNAL WORD  
LABEL CODES / PICTOGRAMS: NO PICTOGRAMS  
HAZARD STATEMENTS: NONE UNDER GHS CLASSIFICATION

### PRECAUTIONARY STATEMENTS :

**PREVENTION :** NONE ASSIGNED UNDER GHS  
**RESPONSE :** NONE ASSIGNED UNDER GHS  
**STORAGE :** NONE ASSIGNED UNDER GHS  
**DISPOSAL :** NONE ASSIGNED UNDER GHS

**OTHER HAZARDS / U.S. - HAZARDS NOT OTHERWISE CLASSIFIED / UN GHS - OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION:**  
CONTACT WITH ACIDS CAN RELEASE TOXIC GAS. AVOID CONTACT WITH ACIDS.  
TREAT AS NUISANCE DUST - AVOID INHALATION OF DUSTS

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL COMPOSITION:	COMPONENTS:	CAS NO.	%
	ZINC SULFIDE, COPPER CHLORIDE DOPED	68611-70-1	>99
<b>SYNONYMS:</b>	LUMINESCENT ZINC SULFIDE; GSS (IN EUROPE)		
<b>CHEMICAL FAMILY:</b>	ZINC COMPOUNDS		

## SECTION 4 – FIRST AID MEASURES

**FIRST AID/ RESPONSE** **FIRST AID RESPONDERS SHOULD WEAR PERSONAL PROTECTIVE EQUIPMENT**

**SKIN :** IF ON SKIN: IMMEDIATELY WASH OFF WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ADVICE/ATTENTION IF IRRITATION OCCURS

**EYES :** IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ADVICE/ATTENTION IF IRRITATION OCCURS.

**INHALATION :** IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. GET MEDICAL ADVISE / ATTENTION IF ANY ADVERSE SYMPTOMS OCCUR.

**INGESTION :** IF SWALLOWED: RINSE MOUTH WITH WATER. INDUCE VOMITING ONLY UNDER THE DIRECTION OF MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH IF THE VICTIM IS UNCONSCIOUS.

### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

AS AN INORGANIC POWDER, INHALATION OR CONTACT WITH DUST MAY CAUSE SLIGHT MECHANICAL IRRITATION TO RESPIRATORY TRACT, SKIN, OR EYES.

### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

CALL A POISON CENTER/DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.

## SECTION 5 – FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA :** **WATER : (X-AS SPRAY/FOG) FOAM : () CO<sub>2</sub> : (X) DRY CHEMICAL : ()**  
PRODUCT IS NOT COMBUSTIBLE. DO NOT USE HIGH PRESSURE WATER JET.

**SPECIFIC HAZARDS IN CASE OF FIRE :** SULFIDE BASED PIGMENT MAY EMIT TOXIC SULFUR DIOXIDE OR HYDROGEN SULFIDE UNDER FIRE CONDITIONS. AVOID RELEASE TO THE ENVIRONMENT

**SPECIAL PROTECTIVE EQUIPMENT & PRECAUTION FOR FIRE FIGHTERS :** FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR IN FIGHTING FIRES INVOLVING CHEMICALS.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** WEAR FULL PROTECTIVE EQUIPMENT (SEE SECTION 8). KEEP UNPROTECTED PERSONNEL OUT OF THE AREA.

**ENVIRONMENTAL PRECAUTIONS:** AVOID RELEASE TO THE ENVIRONMENT/DRAINS/SEWERS/BODIES OF WATER. DISPOSE OF PROPERLY.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:** VACUUM OR SWEEP INTO A PROPERLY LABELED CONTAINER AND SEAL. AVOID GENERATING DUST.

**SECTION 7 – HANDLING & STORAGE**

**PRECAUTIONS FOR SAFE HANDLING:** WHEN HANDLING OR POURING, WEAR FULL PROTECTIVE EQUIPMENT (SEE SECTION 8). USE WITH ADEQUATE VENTILATION. AVOID SCATTERING INTO THE AIR. AVOID RELEASE TO THE ENVIRONMENT. EMPLOY GOOD HOUSEKEEPING TECHNIQUES TO CONTROL DUST BUILD-UP ON EQUIPMENT AND WORK AREA.

**CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:** STORE IN THE SEALED ORIGINAL CONTAINER IN A COOL, DRY AREA AWAY FROM ACIDS.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**CONTROL PARAMETERS:**

**EXPOSURE LIMITS: U.S. OSHA PEL :** NONE ESTABLISHED FOR PRODUCT – TREAT AS NUISANCE PARTICULATE: 15 mg/m<sup>3</sup> TWA TOTAL DUST, 5 mg/m<sup>3</sup> TWA RESPIRABLE,

**U.S. ACGIH TLV :** NONE ESTABLISHED FOR PRODUCT

**APPROPRIATE ENGINEERING CONTROLS :** USE LOCAL / MECHANICAL EXHAUST TO MAINTAIN AIR CONCENTRATIONS BELOW OCCUPATIONAL EXPOSURE STANDARDS (SEE ABOVE)

**PERSONAL PROTECTIVE EQUIPMENT:**

**RESPIRATORY PROTECTION :** USE NIOSH APPROVED RESPIRATOR SUITABLE TO MEET PERMISSIBLE EXPOSURE LIMIT. SEE U.S. OSHA RESPIRATORY STANDARD (20 CFR 1910.134).

**HAND PROTECTION :** USE CHEMICAL RESISTANT GLOVES (RUBBER, PVC)

**EYE PROTECTION :** SAFETY GOGGLES OR GLASSES WITH SIDE SHIELDS OR FULL FACE SHIELD; HAVE ACCESS TO AN EYEWASH FOUNTAIN

**OTHER PROTECTIVE EQUIPMENT :** LABCOAT; COVERALLS TO PROTECT SKIN

**SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE :</b>	LIGHT YELLOWISH-GREEN POWDER	<b>FLAMMABLE LIMITS :</b>	LEL:& UEL: (N/A)
<b>ODOR :</b>	NO ODOR	<b>VAPOR PRESSURE (mm Hg) :</b>	N/A
<b>ODOR THRESHOLD :</b>	N/A	<b>VAPOR DENSITY (AIR=1) :</b>	N/A
<b>pH (IN WATER @ 20°C) :</b>	NO DATA	<b>DENSITY(g/cm<sup>3</sup> @ 20°C) :</b>	1.78 (POUR DENSITY)
<b>MELTING POINT / FREEZING POINT (°C) :</b>	>401 (>754°F)	<b>SOLUBILITY IN WATER (@20°C) :</b>	NEGLIGIBLE (<1%)
<b>BOILING POINT (°C) :</b>	N/A	<b>PARTITION COEFFICIENT(n-OCTANOL/WATER) :</b>	N/A
<b>FLASH POINT (°F) :</b>	N/A	<b>AUTO IGNITION TEMP. (°C) :</b>	>400 (>752°F)
<b>EVAPORATION RATE :</b>	N/A	<b>DECOMPOSITION TEMP. :</b>	N/A
<b>FLAMMABILITY :</b>	NOT FLAMMABLE		

**SECTION 10 – STABILITY AND REACTIVITY**

**CHEMICAL STABILITY :** STABLE WHEN STORED SEALED IN ORIGINAL PACKAGING UNDER RECOMMENDED STORAGE CONDITIONS.

**POSSIBILITY OF HAZARDOUS REACTIONS :** CAN REACT WITH ACIDS TO FORM TOXIC, FLAMMABLE HYDROGEN SULFIDE GAS  
**CONDITIONS TO AVOID :** CONTACT WITH INCOMPATIBLES; GENERATION OF DUST; HEAT, SPARKS, STATIC CHARGE, AND SOURCES OF IGNITION.

**INCOMPATIBLE MATERIALS :** ACIDS

**HAZARDOUS DECOMPOSITION PRODUCTS :** TOXIC/FLAMMABLE GASES (HYDROGEN SULFIDE, SULFUR DIOXIDE) & ZINC OXIDE CAN BE PRODUCED WHEN HEATED, UNDER FIRE CONDITIONS OR WHEN REACTED WITH ACIDS.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**POTENTIAL HEALTH EFFECTS:**

**ROUTES OF EXPOSURE :** SKIN, EYES, INHALATION, INGESTION

**SKIN, EYES, INHALATION :** AS AN INORGANIC POWDER, INHALATION OR CONTACT WITH DUST MAY CAUSE SLIGHT MECHANICAL IRRITATION TO RESPIRATORY TRACT, SKIN, OR EYES.

**INGESTION :** THIS ROUTE OF EXPOSURE IS NOT LIKELY. NO KNOWN EFFECTS.

**CHRONIC:** NO KNOWN EFFECTS

**ACUTE TOXICITY :** ORAL(RAT) LD<sub>50</sub>:>2000mg/kg; DERMAL(RAT) LD<sub>50</sub>:>2000mg/kg; INHALATION(RAT) LC<sub>50</sub>: 5.41mg/m<sup>3</sup>

**SKIN CORROSION / IRRITATION :** NO IRRITATING EFFECT

**SERIOUS EYE DAMAGE / IRRITATION :** NO IRRITATING EFFECT KNOWN

**RESPIRATORY OR SKIN SENSITIZATION :** NO SENSITIZING EFFECTS KNOWN

**GERM CELL MUTAGENICITY :** NEGATIVE

**CARCINOGENICITY :** U.S. LISTED CARCINOGEN: NONE (X) OSHA ( ) NTP ( ) IARC ( ) OTHER ( )

**REPRODUCTIVE TOXICITY :** NOT CLASSIFIABLE; ORAL RAT LOAEL=50mg/kg body weight/day (DEVELOPMENTAL TOXICITY)

**SPECIFIC TARGET ORGAN TOXICITY :** NONE KNOWN

**ASPIRATION HAZARD :** NO DATA AVAILABLE

**INTERACTIVE EFFECTS:** NONE KNOWN

**SECTION 12 – ECOLOGICAL INFORMATION**

**ECOTOXICITY :** AVOID RELEASE TO THE ENVIRONMENT  
**TOXICITY - AQUATIC :** NO TEST DATA AVAILABLE  
**TOXICITY TO DAPHNIA :** NO TEST DATA AVAILABLE  
**TOXICITY - TERRESTIAL :** NO TEST DATA AVAILABLE  
**PERSISTANCE & DEGRADABILITY:** INORGANIC SUBSTANCE – NOT SOLUBLE IN WATER  
**BIOACCUMULATIVE POTENTIAL :** NO TEST DATA AVAILABLE  
**MOBILITY IN SOIL :** NO TEST DATA AVAILABLE  
**OTHER ADVERSE EFFECTS :** NO DATA AVAILABLE

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS:**

DISPOSE OF CONTENTS / CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL, NATIONAL, INTERNATIONAL REGULATIONS.  
 DISPOSE OF IN SEALED CONTAINERS, USING A LICENSED CHEMICAL WASTE HAULER FOR ZINC WASTES.  
**FOLLOW ALL LOCAL, STATE AND FEDERAL INFORMATION AND REGULATIONS**

**SECTION 14 – TRANSPORT INFORMATION**

**BY ROAD OR RAIL - U.S. D.O.T. REGULATED:** YES () NO (X) **RQ:** (N/A)  
 IF REGULATED, UN PROPER SHIPPING NAME: HAZARD CLASS: ()  
 UN IDENTIFICATION NO.: () PACKING GROUP: () LABEL REQUIRED: ()  
 U.S. MARINE POLLUTANT: YES () NO (X) SEVERE U.S. MARINE POLLUTANT: YES () NO (X)  
 EMERGENCY RESPONSE GUIDE NO.: ()  
 INLAND B/L:  
**BY SEA - IMDG REGULATED:** YES () NO (X) STOWAGE CATEGORY: N/A  
**BY AIR - IATA REGULATED:** YES () NO (X) PKG INSTRUCTION NO.: N/A  
**SPECIAL PRECAUTIONS:** READ SDS BEFORE HANDLING

**SECTION 15 – REGULATORY INFORMATION**

**U.S. TSCA:** WE CERTIFY THAT ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCES CONTROL ACT.  
**U.S. SARA TITLE III, SECT. 313 :** LISTED (X\*) NOT LISTED () \*AS ZINC COMPOUND  
**U.S. RCRA HAZARDOUS WASTE :** NO (X) YES () **RCRA # :** ()  
**U.S. 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  
**U.S. DEPARTMENT OF HOMELAND SECURITY APPENDIX "A" :** LISTED () NOT LISTED (X)  
**U.S. CALIFORNIA PROPOSITION 65 LISTED :** YES () NO (X)  
**HMIS:** HEALTH (0) FLAMMABILITY (0) REACTIVITY (0)

**SECTION 16 – OTHER INFORMATION**

**REVISION DATE:** APRIL 8, 2015 **PREPARED BY:** EHSA COORDINATOR / UNITED MINERAL & CHEMICAL CORP.

**ABBREVIATIONS / ACRONYMS:** N/A=NOT APPLICABLE; LEL=LOWER EXPLOSION LIMIT; UEL=UPPER EXPLOSION LIMIT; PEL=PERMISSIBLE EXPOSURE LIMIT; TLV=THRESHOLD LIMIT VALUE; TWA=TIME WEIGHTED AVERAGE OVER 8 HOUR WORKDAY; LD<sub>50</sub> OR LC<sub>50</sub>=LETHAL DOSE OR LETHAL CONCENTRATION THAT KILLS 50% OF DOSED GROUP; g=GRAM; kg=KILOGRAM; PPM=PARTS PER MILLION; LOAEL=LOWEST OBSERVED ADVERSE EFFECT LEVEL

IN ACCORDANCE WITH GOOD PRACTICES OF PERSONAL HYGIENE, HANDLE WITH DUE CARE AND AVOID ANY UNNECESSARY CONTACT WITH THIS PRODUCT. USE RECOMMENDED PERSONAL PROTECTION WHEN HANDLING (SEE SECTION 8).

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 & CHEMICAL CORPORATION AND ITS SUPPLIERS ASSUME NO RESPONSIBILITY FOR DAMAGE OR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

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