

## Technical - Material Safety Data Sheets SP Series.

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### SECTION ONE -- IDENTITY INFORMATION

TRADE NAME : PHOTOLUMINESCENT PIGMENT

CAS NUMBER : NO

CHEMICAL/FAMILY NAME: ALKALINE EARTHMETAL ALUMINATE OXIDE

EUROPIUM DOPED

PRODUCT TYPE: PLO

FORMULA :  $MO \cdot Al_2O_3:Eu$

STATEMENT : THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN  
PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD  
COMMUNICATION STANDARD 29 CFR 1910.1200. THIS  
PRODUCT IS CONSIDERED TO BE A NON-HAZARDOUS  
SUBSTANCE UNDER THAT STANDARD.

### SECTION TWO -- HAZARDOUS INGREDIENTS

INGREDIENTS GAS NUMBER % ACGIH-TLV OSHA-PEL

AS INERT DUST (TOTAL)  $2mg/m^3$  ACGIH-TLV

$3mg/m^3$  OSHA-PEL

### SECTION THREE -- PHYSICAL DATA

APPEARANCE : LIGHT-GREEN POWDER/NO ODER

MELTING POINT : DISSOCIATES  $1200^{\circ}C$

VAPOR PRESSURE: N/AP

VAPOR DENSITY : N/AP

SOLUBILITY IN WATER : SOLUBLE

WEIGHT PER CUBE METER: 3.0 - 3.6

PLAMMABILITY CLASS: N/AP

EXTINGUSHING MEDIA: WATER

SPECIFIC GRAVITY: 3.0 - 3.6

FREEZING POINT : N/AP

PERCENT VOLATILE: N/AP

EVAPORATION RATE: N/AP

PH (% IN WATER) : N/AP

FLASH POINT : N/AP

AUTO-IGNITION TEMP: N/AP

FIRE FIGHTING PROCEDURE-SPECIAL

FIRE FIGHTERS SHOULD WEAR SELF-CONTALNED BREATHING APPARATUS  
WHEN FIGHING CHEMICAL FIRES.

USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES  
EXPOSED

TO FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

THIS PRODUCT WILL NOT BURN.USE APPROPRIATE TECHNIQUES TO FIGHT  
SUROUNDING FIRE.

SECTION FOUR -- REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: CONTACT WITH ACIDS

INCOMPATIBILITY : CONTACT WITH ACIDS

HAZARDOUS DECOMPOSITION PRODUCTS: WILL NOT OCCUR

SECTION FIVE -- HEALTH HAZARD DATA

RESPIRATORY EQUIPMENT: LOCAL EXHAUST/MECHANICAL (GENERAL)

PROTECTIVE GLOVES: PLASTIC OR NEOPRENE

EYE PROTECTION: CHEMICAL GLASSES

VENTILATION:

OTHER PROTECTIVE EQUIPMENT: LAB COAT

THRESHOLD LIMIT VALUE: OSHA, PEL TOTAL DUST  $3\text{mg}/\text{m}^3$

PRIMARY ROUTES OF EXPOSURE: INHALATION/INGESTION/SKIN

OSHA PEL :  $3\text{mg}/\text{m}^3$

ACGIN TLV:  $2\text{mg}/\text{m}^3$

EFFECTS OF OVEREXPOSURE: MAY CAUSE IRRITATION TO EYES,SKINS &

MUCOUS MEMBRANES

LISTED CARCINOGEN: NONE

SECTION SIX -- EMERGENCY & FIRST AID DATA

SKIN: WASH OFF WITH SOAP & WATER

EYES: FLUSH WITH WATER FOR 5 MINUTES

INHALATION: REMOVE TO FRESH AIR

INGESTION: DRINK QUANTITIES OF WATER & INDUCE VOMITING

SECTION SEVEN -- TOXICOLOGY INFORMATION

THIS PRODUCT IS OF NON-TOXIC, PLEASE CONTACT THE MANUFACTURE FOR FURTHER INFORMATION.

#### SECTION EIGHT – SPILL OR LEAK PROCEDURES

SPILL PROCEDURES: WEAR APPROPRIATE PROTECTIVE EQUIPMENT, AVOID THE GENERATION OF DUST, VACUUM OR SHOVEL MATERIAL AND PLACE IN CLOSABLE CONTAINER(S) FOR DISPOSAL

WASTE DISPOSAL METHODS: DISPOSE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS

#### SECTION NINE -- REGULATORY INFORMATION

SARA 313 TITLE III

TOXIC SUBSTANCE CONTROL ACT (TSCA):

ALL INGREDIENTS IN THIS PRODUCT ARE LISTED ON THE U.S. EPA TSCA INVENTORY OF CHEMICAL SUBSTANCES.

#### SECTION TEN -- SPECIAL PRECAUTIONS FOR INDUSTRIAL USE ONLY

HANDLING & STORAGE INFORMATION:

STORE CLOSED IN COOL DRY AREA WHEN HANDLING WEAR PROTECTIVE CLOTHING & RESPIRATORY PROTECTION. AVOID SCATTER INTO THE AIR.

OTHER PRECAUTIONS: MAINTAIN A SCHEDULE OF REGULAR HOUSEKEEPING TO INSURE CLEANLINESS

#### SECTION ELEVEN -- ADDENDUM

DEFINITIONS AND ABBREVIATIONS:

ACGIH=AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

CAS=CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER

EPA=ENVIRONMENTAL PROTECTION AGENCY

N/AP=NOT APPLICABLE

N/A=NOT AVAILABLE

NIOSH=NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

OSHA=OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PEL=PERMISSIBLE EXPOSURE LIMITS

SARA=SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT