

## **PHOTOLUMINESCENT PIGMENT MATERIAL SAFETY DATA SHEET (MSDS)**

**Distributors Name:** Bastion Paint cc

**Street Address:** 9 Crest Road, Salt Rock , 4391, South Africa

**Emergency Telephone:** +27 (0)32 525 4491

### **SECTION 1 - CHEMICAL PRODUCT AND IDENTIFICATION**

Product class: Photoluminescent Pigment also called Glow-in-the-dark Powder.

Product names: Green Universal (WBP60G)

Sky Blue (Universal (WBP55GB)

Green for Resin (BP250G)

Yellowish to whitish powder when not charged by light. The powder turns greenish or bluish when charged by light and glows green or blue in the dark for 12 hours or more after charging.

Manufacturer: Not Disclosed

### **SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS**

Chemical formula:  $\text{SrAl}_2\text{O}_4$ : Eu

Chemical Name: Strontium aluminate, europium-doped

Approx Wt%: ~100%

CAS #: 12004-37-4

EINECS #: 215-691-6

### **SECTION 3 - HAZARDS IDENTIFICATION**

This material has been measured in compliance with the European Standard on Safety of Toys, EN71 Part 3:1994 (including amendment A1:2000) - Migration of Certain Elements.

This product is considered to be a non-hazardous substance under that standard.

Eye: May cause irritation

Skin: Usually no irritation from casual handling but may cause irritation (do not use for cosmetic applications).

Ingestion: May cause irritation. Do not ingest the powder.

Inhalation: May cause irritation. Avoid breathing dust. Use dust protection mask when handling.

Chronic: None

### **SECTION 4 - FIRST AID MEASURES**

Eyes: Flush with water for 5 minutes

Skin: Wash with water

Ingestion: Drink quantities of water and induce vomiting

Inhalation: Remove to fresh air  
Notes to Physician: None  
Contact Physician if any effects of exposure remain after initial actions.

## **SECTION 5 - FIRE FIGHTING MEASURES**

This product will not burn.  
Dangerous character: Non-dangerous  
Combustible composition: None  
Use appropriate techniques to fight surrounding fire.  
Extinguishing Media: Use extinguishing agent suitable for surrounding fire.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

### **Person-related safety precautions:**

- Wear protective equipment e.g. dust mask. Keep unprotected persons away.

### **Measures for environmental protection:**

- Do not allow material to be released to the environment without proper governmental permits.

### **Measures for cleaning/collecting:**

- Spills/Leaks: Sweep up powder that may be spilt and put it in plastic bag and seal it.
- Dispose of contaminated material in accordance with local regulations.

## **SECTION 7 - HANDLING and STORAGE**

Handling: Avoid excess skin contact. Avoid breathing dust; wear a dust mask.  
Storage: Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Product (especially BP250G) may absorb moisture from the atmosphere and develop lumps if not stored in sealed containers.

No other special precautions are necessary if used correctly.

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

When working with large quantities use following Engineering Controls:

- Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

When working with large quantities use following PPE:

- Use Personal Protective Equipment: Plastic or neoprene gloves, Proper breathing apparatus and Lab coat.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid  
Colour: White to yellowish powder turning greenish or blueish when exposed to light.  
Odour: None  
pH: Approximately 7  
Vapour Pressure: NA  
Viscosity: NA  
Boiling Point: Not determined  
Freezing/Melting Point: NA

Auto-ignition Temperature: Not determined  
Flash Point: NA  
Explosion Limits, lower: NA  
Explosion Limits, upper: NA  
Decomposition Temperature: NA  
Solubility in water: Insolubility  
Specific Gravity/Density: NA  
Molecular Weight: 1003

## **SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability: Relatively Stable

Do not mix with high shear. The particles of WBP60G and WBP55GB are coated with a protective coating to make the powder water resistant. If the protective layer is broken the powder will react with water.

Conditions to avoid as chemical reactions may change product to a non-glowing state.

- Acids
- Bases
- Oxidizing agents
- Interhalogens
- Halocarbons
- BP250G will react with water

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

No toxicological information

## **SECTION 12 - ECOLOGICAL INFORMATION**

No Ecological information

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose in accordance with state and local regulations.

## **SECTION 14 - TRANSPORT INFORMATION**

Not a hazardous material for transportation.

Hazard class: None

ADR/RID class: None

IMDG Class: None

ICAO/IATA class: None

## **MSDS Complied by and Revision Date**

**Name:** Brian Quicke

**Revision Date:** 05 August 2020

**Title:** Member (BSc Chemistry, honours)

**Signature:** \_\_\_\_\_