

Polycraft PolyGlo Pigment Powders

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of Issue 13.06.19

Version 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Trade Name : Polycraft PolyGlo Photo Luminescent Pigment Powder (Aqua, Cobalt, Green, Violet).
Product Code : QL8631(Aqua), QL8636 (Cobalt), QL8641 (Green), QL8645 (Violet).

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Pigment

1.3 Details of the supplier of the safety data sheet

MB Fibreglass
Unit 17 & 20 Abbey Business Park
Mill Road, Newtownabbey
Co. Antrim
BT36 7EE
Tel: 02890 861992
sales@mbfg.co.uk

1.4 Emergency telephone number

Emergency number : 02890 861992 (Office Hours Only)

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 2, H411

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : None

Hazardous statements (CLP) : H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P273 - Avoid release to environment.
P391 - Collect spillage.
P501 - Dispose of contents/container to an authorised waste collection point.

2.3 Other Hazards

This product is not identified as a PBT/vPvB substance.

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SECTION 3: Composition / Information on ingredients

3.1 Substance

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dialuminium x dysprosium y europium (1-x-y) strontium tetraoxide	(CAS no) 669771-69-1 (EC no) 416-840-1	>=95	Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

SECTION 4: First aid Measures

4.1 Description of first aid measures

Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
Irrigate eyes thoroughly whilst lifting eyelids
If eye irritation persists: Get medical advice/attention.

Contact with skin

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Ingestion

Give plenty of water to drink Induce vomiting (only if patient is conscious), Seek immediate medical attention

Inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, oxygen should be given by a trained person
Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- May cause irritation to skin, eyes and the respiratory tract.
- May cause gastro-intestinal irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

- Gives off irritating or toxic fumes (or gases) in a fire.
- Decomposition products may include oxides of aluminium, strontium, dysprosium and europium

5.3 Advice for firefighters

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions for non-emergency personnel: Avoid formation of dust; Wear protective clothing as per section 8; Wash thoroughly after dealing with spillage; Eyewash bottles should be available
- Personal precautions for emergency responders: Wear chemical protection suit; Wear self-contained breathing apparatus (SCBA).

6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

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6.3 Methods and material for containment and cleaning up

- Stop leak if safe to do so.
- Avoid formation of dust
- Absorb spillage in earth or sand
- Remove by mechanical means
- Place in appropriate container
- Remove contaminated material to safe location for subsequent disposal

6.4 Reference to other sections

- Wear protective clothing as per section 8
- See Section 13 for waste disposal

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Avoid raising dust
- Engineering controls should be provided to prevent the need for ventilation
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
- Do not get in eyes, on skin, or on clothing.
- Contaminated clothing should be laundered before reuse
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Store in a well-ventilated place. Keep cool.
- Keep only in original container.
- Protect from sunlight.
- Keep out of reach of children
- Keep away from food, drink and animal foodstuffs
- Shelf life >24 months

7.3 Specific end use(s)

Used in the creation of glow-in-the-dark articles, displays and artwork. Applications exist in coatings, sealants, varnishes, adhesives, plastics and paints. The product is aimed at industrial, leisure and consumer markets.

SECTION 8: Exposure controls / personal protection

8.1 Control Parameters

No exposure limits have been set for this substance

The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 4 mg/m³ (8hr TWA) total respirable dust

- PNEC aqua (freshwater) 3.2 - 6.8 ug/l
- PNEC aqua (marine water) 320 - 680 ng/l
- PNEC intermittent releases 3.2 - 68 ug/l
- PNEC (STP) 1 mg/l
- PNEC sediment (freshwater) 15 - 46.3 ug/kg
- PNEC sediment (marine water) 1.5 - 4.63 ug/kg

8.2 Conditions for safe storage, including any incompatibilities

- Engineering controls should be provided to prevent the need for ventilation
- In case of insufficient ventilation, wear suitable respiratory equipment
- Use type FFP2 (EN 143) dust masks
- Wear suitable protective clothing, including eye/face protection and gloves (neoprene are recommended)
- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Wear goggles giving complete eye protection
- Wear boots
- Eyewash bottles should be available
- Do not eat, drink or smoke when using this product.

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SECTION 9: Physical and chemical properties

9.1 Control Parameters

- Appearance: Light yellow/straw coloured powder of varying micron sizes (25-40mu, 40-60mu, 75mu, 100mu, 200mu, 500mu, 1000mu)
- Odour: None
- Odour threshold: Not applicable
- pH: Not applicable
- Melting point/freezing point: No information available
- Initial boiling point and boiling range: No information available
- Flashpoint: >1050°C
- Evaporation Rate: Not applicable
- Flammability (solid,gas): No information available
- Upper/lower flammability or explosive limits: No information available
- Vapour Pressure: No information available
- Vapour Density: No information available
- Relative Density: 3.6 g/cm³
- Solubility(ies): Water solubility 300 mg/l @ 20°C and pH 11.35
- Partition Coefficient (n-Octanol/Water): Log Pow : 0 @ 20°C and pH 11.92 - 11.96
- Autoignition Temperature: No information available
- Decomposition temperature: No information available
- Viscosity: No information available
- Explosive Properties: No information available
- Oxidising Properties: Not oxidising

9.2 Other information

Dispersion properties: dispersed in low, medium and high viscosity binders. Binders should be clear and non-waterbased

SECTION 10: Stability and reactivity

10.1 Reactivity

This substance is non-volatile

10.2 Chemical stability

Considered stable under normal conditions

10.3 Possibility of hazardous reactions

No hazardous reactions known, if used for its intended purpose

10.4 Conditions to avoid

- Avoid contact with moist air
- Keep away from heat and light

10.5 Incompatible materials

No information available

10.6 Hazardous decomposition products

Decomposition products may include oxides of aluminium, strontium, dysprosium and europium

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

-Acute Toxicity

Based on available data, the classification criteria are not met

LD50 (oral,rat) >2000 mg/kg

LD50 (dermal) : >2000 mg/kg

- Skin corrosion/irritation

Based on available data, the classification criteria are not met

- Serious eye damage/irritation

Based on available data, the classification criteria are not met

- Respiratory or skin sensitisation

Based on available data, the classification criteria are not met

- Germ cell mutagenicity

No evidence of mutagenic effects

- Carcinogenicity

No evidence of carcinogenic effects

- Reproductive toxicity

No evidence of reproductive effects

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- Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met
- Specific target organ toxicity (STOT) - repeated exposure
Based on available data, the classification criteria are not met
- Aspiration hazard
Based on available data, the classification criteria are not met
- Contact with eyes
May cause redness and irritation
- Contact with skin
May cause irritation
- Ingestion
May cause gastro-intestinal irritation
- Inhalation
May cause respiratory tract irritation.

SECTION 12: Ecological information

12.1 Toxicity

- Toxic to aquatic life with long lasting effects.
- LC50 (fish) 6.8 mg/l (96 hr)
- NOEC (fish) 4.6 mg/l (4 days)
- LC50 (fish) 3.6 mg/l (28 days)
- EC50 (aquatic invertebrates) 13 mg/l (48 hr)
- EC50 (aquatic algae and cyanobacteria) 19 - 29 mg/l (72 hr)
- EC50 (microorganisms) 100 mg/l (3 hr)

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

Not a PBT/vPvB Substance in accordance to REACH Annex XIII

12.6 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Bury on an authorised landfill site
- Incineration is not recommended

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined.

Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in Arrangement with your waste disposal partner or the responsible authority.

SECTION 14: Transport information

In Accordance to ADR, RID, IMDG or IATA

14.1 UN number

UN-No. (ADR)	:3077
UN-No. (IMDG)	:3077
UN-No. (IATA)	:3077

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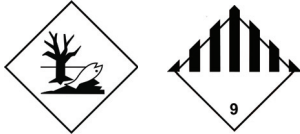
14.2 UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s

14.3 Transport hazard class (es)

ADR

Transports hazard class(es) (ADR)	: 9
Danger labels (ADR)	: 9



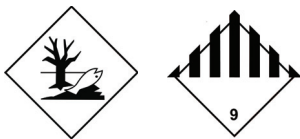
IMDG

Transports hazard class(es) (IMDG)	: 9
Danger labels (IMDG)	: 9



IATA

Transports hazard class(es) (IATA)	: 9
Danger labels (IATA)	: 9



14.4 Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III

14.5 Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6 Special precautions for user

This material is classified as dangerous for transport under the UN model regulations but is not subject to ADR/RID, IMDG and ICAO/IATA due to specific exemptions in those rules

Overland special Provisions : 375
Tunnel Code: E

14.7 Transport in bulk according to annex II

Not applicable

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- UN 3077 when carried in single or combination packaging containing a net quantity per single or inner packaging of 5L/kg or less, is not subject to the provisions of ADR, RID, IMDG or IATA, provided the package meets the general packing quality provisions.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H411: Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as a guarantee for a specific property of the product.