



Safety Data Sheet **209 Phthalocyanine Blue** **Lake Pigment Blue 15:3**

1. Product and Company Identification

Product Name: 209 Phthalocyanine Blue Lake

Michael Harding Art Formulas Ltd
Unit K, Springvale Ind Est
Cwmbran
Gwent
NP44 5BE
UK

Chemical family: copper-phthalocyanine pigment, pigment beta blue

2. Hazards Identification

State of matter: solid Colour: blue
Odour: odourless

Potential health effects

Acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Irritation / corrosion:

Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment other acute effects:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Sensitization:

The chemical structure does not suggest a sensitising effect.

Repeated dose toxicity:

No adverse effects were observed after repeated exposure in animal studies.

Reproductive toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity:

No teratogenic effects reported.

Genotoxicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in microorganisms.

Signs and symptoms of overexposure:

The most important known symptoms and effects are described in section 11.

Potential environmental effects

Aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Degradation / environmental fate:

Well eliminable from water by adsorption on activated sludge. The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

3. Composition / Information on Ingredients

CAS Number: 147-14-8

Content (W/W): 98.0 - 100.0 % Chemical name: C.I. Pigment Blue 15.3

CAS Number: N/A

Content (W/W): 0.0 - 2.0 %

Chemical name: Proprietary Copper Compound

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media: dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

Hazards during firefighting: harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

6. Accidental release measures

Personal precautions:

Avoid dust formation. Use personal protective clothing.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

7. Handling and Storage

Handling

General advice:

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

Storage

General advice:

Keep container tightly closed and dry; store in a cool place. Avoid all sources of ignition: heat, sparks, open flame.

8. Exposure Controls and Personal Protection

Advice on system design:

Provide local exhaust ventilation to control dust. Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Eye wash fountains and safety showers must be easily accessible. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form: powder

Odour: odourless

Odour threshold: No data available. Colour: blue

pH value: 5 - 8.5 (50 g/l, 20 °C) Melting point: > 180 °C (1,013 hPa) Boiling point: not applicable

Vapour pressure: not applicable Density: 1.6 g/cm³ (20 °C) Solubility in water: insoluble

Solubility in other solvents: insoluble

10. Stability and Reactivity

Minimum ignition energy:

The product is capable of dust explosion.

Conditions to avoid:

Avoid dust formation. Avoid deposition of dust. Avoid sources of ignition.

Substances to avoid:

No substances known that should be avoided.

Hazardous reactions: Dust explosion hazard.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties: not fire-propagating

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50 Species: rat

Value: > 5,000 mg/kg

Inhalation:

Study scientifically not justified.

Dermal:

Type of value: LD50 Species: rat

Value: > 2,000 mg/kg

Irritation / corrosion

Skin:

Species: rabbit Result: non-irritant

Eye:

Species: rabbit Result: non-irritant

Aspiration Hazard:

No aspiration hazard expected.

12. Ecological Information

Fish

Acute:

Leuciscus idus/LC50 (96 h): > 500 mg/l

Aquatic invertebrates

Acute:

Daphnia magna/EC50 (48 h): > 500 mg/l

Microorganisms

Toxicity to microorganisms:

DIN 38412 Part 27 (draft) bacterium/EC50: > 1,000 mg/l

Other adverse effects:

Do not discharge product into the environment without control.

The product contains: copper

The heavy metals mentioned are present in complex bound form as substantial constituent of the colourant.

13. Disposal considerations

Waste disposal of substance:

Must be disposed of or incinerated in accordance with local regulations.

Container disposal:

The packaging must not be re-used. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport: TDG

Not classified as a dangerous good under transport regulations

Sea transport: IMDG

Not classified as a dangerous good under transport regulations

Air transport: IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations Registration status:

Chemical DSL, CA released / listed

WHMIS classification: D2A: Materials Causing Other Toxic Effects

Very toxic material

16. Other Information

Recommended use: colouring component

Suitable for use in industrial sector: chemical industry.

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