1. Identification

Product identifier used on the label

Pigment Blue 15:4

Recommended use of the chemical and restriction on use

Recommended use*: colourant(s)

Suitable for use in industrial sector: Paints, lacquers and varnishes industry; plastics processing industry

Details of the supplier of the safety data sheet

Dongguan Baoxu Chemical Technology.,ltd.
Caijin Business Bldg DongGuan CN 523071
+86 0769 22821082 Fax 86 0769 22821083
www.additivesforpolymer.com
info@additivesforpolymer.com

Other means of identification

Chemical family: copper-phthalocyanine pigment

2. Hazards Identification


Combustible Dust: Combustible Dust (1) Combustible Dust

Label elements

Signal Word:
Hazard Statement:

May form combustible dust concentration in air.

Hazards not otherwise classified

The product is under certain conditions capable of dust explosion. Additional information on Classification and labelling in section 2: Classification and labelling were undertaken on the basis of tests on a preparation of similar composition.


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<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
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<tr>
<td>147-14-8</td>
<td>&gt;= 75.0 - &lt; 100.0% C.I. Pigment Blue 15</td>
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4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
If difficulties occur after dust has been inhaled, remove to fresh air and

If on skin:
Remove contaminated clothing. Wash thoroughly with soap and seek medical attention.

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.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.
5. Fire-Fighting Measures
   Extinguishing media
   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.

   Special hazards arising from the substance or mixture
   Hazards during fire-fighting:
   harmful vapours
   Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

   Advice for fire-fighters
   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, protective equipment and emergency procedures
   Avoid dust formation. Use personal protective clothing.

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

   Methods and material for containment and cleaning up
   For small amounts: Pick up with suitable appliance and dispose of.
   For large amounts: Contain with dust binding material and dispose of.
   Avoid raising dust.

7. Handling and Storage
   Precautions for safe handling
   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.

   Dust can form an explosive mixture with air.

   Conditions for safe storage, including any incompatibilities
Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.
Avoid all sources of ignition: heat, sparks, open flame.

8. Exposure Controls/Personnel Protection

Components with occupational exposure limits
C.I. Pigment Blue 15
ACGIH TLV TWA value 0.2 mg/m³ fumes/smoke (copper (Cu)); TWA value 1 mg/m³ Dust and mist

Advice on system design:
Provide local exhaust ventilation to control dust.

Personal protective equipment Respiratory protection:
Wear a NIOSH-certified (or equivalent) particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

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. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Eye wash fountains and safety showers must be easily accessible. Wash soiled clothing immediately.

Physical and Chemical Properties

Form: powder
Odour: odourless
Odour threshold: not determined
Colour: pH dark blue
not soluble
Boiling point: not determined
Flash point: Study does not need to be conducted. not highly flammable Product is combustible.
Lower explosion limit: For solids not relevant for classification and labelling.
Upper explosion limit: For solids not relevant for classification and labelling.
Autoignition: > 500 °C
Density: 1.69 g/cm³
(20 °C)
Relative density: approx. 1.6
Bulk density: 204 kg/m³
Vapour density: The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow): Study does not need to be conducted.
Self-ignition temperature: not self-igniting
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic: Study does not need to be conducted.
Particle size: No data available.
Solubility in water: insoluble
Solubility (quantitative): insoluble
Solubility (qualitative): soluble
solvent(s): organic solvents,
Evaporation rate: The product is a non-volatile solid.

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.
Oxidizing properties:
not fire-propagating

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
The product may contain explosive fine dust or such dust may be produced by abrasion transport or product transfer.

Conditions to avoid
See MSDS section 7 - Handling and storage.

Incompatible materials
No substances known that should be avoided.

Hazardous decomposition products
Decomposition products:

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

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

11. Toxicological information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.
Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Oral
Type of value: LD50 Species: rat Value: > 5,000 mg/kg
The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation
Type of value: LC50
Study scientifically not justified.

Dermal
Type of value: LD50 Species: rat Value: > 2,000 mg/kg
The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment other acute effects
Assessment of STOT single:
Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion
Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Skin
Species: rabbit
Result: non-irritant
Method: OECD Guideline 404
The product has not been tested. The statement has been derived from the properties of the individual components.

Eye
Species: rabbit
Result: non-irritant
Method: OECD Guideline 405
The product has not been tested. The statement has been derived from the properties of the individual components.

Sensitization
Assessment of sensitization: The chemical structure does not suggest a sensitizing effect. No sensitizing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration Hazard No aspiration hazard expected.
**Chronic Toxicity/Effects**

Repeated dose toxicity
Assessment of repeated dose toxicity: No adverse effects were observed after repeated exposure in animal studies. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Genetic toxicity
Assessment of mutagenicity: No mutagenic effects reported.

Carcinogenicity
Assessment of carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity
Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity
Assessment of teratogenicity: No teratogenic effects reported.

**Symptoms of Exposure**
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

**12. Ecological Information**

**Toxicity**

Aquatic toxicity
Assessment of 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.

Toxicity to fish
LC50 (96 h) > 100 mg/l, Leuciscus idus
The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates
EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1)
The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic plants EC50 (72 h), algae not determined
Chronic toxicity to aquatic invertebrates
No observed effect concentration (21 d) > 1 mg/l, Daphnia magna (OECD Guideline 211, semistatic)
The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms
DIN 38412 Part 27 (draft) activated sludge/EC50:
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Persistence and degradability
Assessment biodegradation and elimination (H2O)
The product is virtually insoluble in water and can thus be separated from water mechanically suitable effluent treatment plants.

Bioaccumulative potential
Bioaccumulation potential
Study scientifically not justified.

Additional information
Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. Disposal considerations
Waste disposal of substance:
Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.

Container disposal:
Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA: NONE

14. Transport Information

Land transport
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
15. Regulatory Information

Federal Regulations

Registration status: Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Fire (Combustible Dust);

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CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

16. Other Information