

**Material Safety Data Sheet
Pigment Orange 71**

1. Identification

Product identifier used on the label

Pigment Orange 71

Recommended use of the chemical and restriction on use

Recommended use*: colouring component

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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

Emergency telephone number

Other means of identification

Chemical family: organic pigment

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200 Classification of the product

Combustible Dust Combustible Dust (1) Combustible Dust

Label elements

Signal Word:

Warning

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 the preparation.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

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 seek medical attention.

If on skin:

Wash thoroughly with soap and water. If irritation develops, 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.

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., Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Note to physician

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: dry powder, foam

Unsuitable extinguishing media for safety reasons: carbon dioxide

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:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions.

Contaminated extinguishing water must be disposed of in accordance with official regulations.

Impact Sensitivity:

Assessment: Product is not explosive when subjected to mechanical impact.

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.

7. Handling and Storage

Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation. Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s⁻¹).

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Zirconium	OSHA PEL PEL 5 mg/m ³ (zirconium (Zr)); STEL value 10
bis(hydrogen	mg/m ³ (zirconium (Zr));
phosphate)	TWA value 5 mg/m ³ (zirconium (Zr));
	ACGIH TLV TWA value 5 mg/m ³ (zirconium (Zr));
	STEL value 10 mg/m ³ (zirconium (Zr));

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:

Wear protective clothing as necessary to minimize contact. Handle in accordance with

Physical and Chemical Properties

Form:	powder odourless not
Odour:	determined orange approx.
Odour threshold:	7.5 (as suspension)
Colour: pH value:	400 °C
Melting point:	Information based on the main components.
Boiling point:	not applicable
Flash point:	not applicable
Flammability:	not highly flammable
Autoignition:	500 °C (BAM)
Vapour pressure:	not
Density:	applicable
Bulk density:	1.30 g/cm ³
Vapour density:	290 kg/m ³
Partitioning	not
coefficient n-	applicable 5
octanol/water (log	Information based on the
Pow):	main components. approx. 380 °C
Self-ignition	Information based on the
temperature:	main components. No data available. none insoluble not applicable

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Dust explosion class:

Dust explosion class 1 (Kst-value >0 up to 200 bar m s⁻¹) (St 1)

Formation of flammable gases: Start temperature: 350 °C

Chemical stability

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

Possibility of hazardous reactions

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

Conditions to avoid

Avoid electro-static discharge. Avoid sources of ignition.

Incompatible materials

strong oxidizing agents, strong bases, strong acids

Hazardous decomposition products

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.

Primary routes of entry Ingestion.

Skin

Inhalation.

Eyes

Acute Toxicity/Effects

Acute toxicity

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

Oral

Type of value: LD50
Species: rat
Value: > 2,000 mg/kg (OECD Guideline 401)

Inhalation
Type of value: LC50
not determined

Dermal
Type of value: LD50
Species: rat
Value: > 2,000 mg/kg (OECD Guideline 402)

Assessment other acute effects

No data available.

Irritation / corrosion

Assessment of irritating effects: Contact with the eyes or skin may cause mechanical irritation.

Skin

May cause mechanical irritation. The product has not been tested. The statement has been derived from the properties of the individual components.

Eye

Dust may cause mechanical eye irritation.

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Guinea pig maximization test

Species: guinea pig
Result: Non-sensitizing.
Method: OECD Guideline 406

Mouse Local Lymph Node Assay (LLNA)

Species: mouse
Result: Non-sensitizing.
Method: OECD Guideline 429

Aspiration Hazard

not applicable

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No data available.

Genetic toxicity

Assessment of mutagenicity: No mutagenic effects reported. The product has not been tested. The statement has been derived from the properties of the individual components.

Reproductive toxicity

Assessment of reproduction toxicity: No data available.

Teratogenicity

Assessment of teratogenicity: No data available.

Other Information

Allergic reactions possible (Analogie reasons). The statements are based on the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2)

and/or in section 11., Further important symptoms and effects are so far not known.

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.

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. No toxic effects occur within the range of solubility.

Toxicity to fish

LC50 (96 h) > 40 mg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 92/69/EEC, C.1, semistatic)
No toxic effects occur within the range of solubility. No effects at the highest test concentration. Limit concentration test only (LIMIT test). Tested above maximum solubility. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates

EC50 (48 h) > 40 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

No toxic effects occur within the range of solubility. No effects at the highest test concentration. Tested above maximum solubility. Limit concentration test only (LIMIT test). The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration.

Aquatic plants

EC50 (72 h) > 40 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)

No toxic effects occur within the range of solubility. No effects at the highest test concentration. Tested above maximum solubility. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. The details of the toxic effect relate to the nominal concentration

Chronic toxicity to fish

No data available

Chronic toxicity to aquatic invertebrates

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

OECD Guideline 209 static

activated sludge, domestic/EC50 (3 h): > max. water solubility

No toxic effects occur within the range of solubility. The product has low solubility in the test medium.

An aqueous solution prepared with solubilizers has been tested. Tested above maximum solubility.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

Elimination information

(28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4 -C) Non-biodegradable.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal considerations Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

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15. Regulatory Information

VOC content:

none

Federal Regulations Registration status:

Chemical TSCA, US released / listed

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

NFPA Hazard codes:

Health : 1 Fire: 2 Reactivity: 0 Special:

HMIS III rating

16. Other Information

SDS Prepared by: Dongguan Baoxu Chemical Technology.,ltd.