QINGDAO SANHUAN COLORCHEM CO., LTD.

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MATERIAL SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Phthalo Blue(NC α -Form)
Color Index Name: PIGMENT BLUE 15：1
Chemical Formula: $C_{32}H_{16}CuN_8$
Molecular Weight: 576.07
CAS No.: 12239-87-1
Manufacturer Identification:
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Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content%	Hazardous
PIGMENT BLUE 15：1	12239-87-1	100	No

Section 3 - HAZARDS IDENTIFICATION

3.1. Classification of the substance or mixture
3.2. Label elements Labeling according CLP regulation (Regulation (EC) No. 1272/2008, as amended) The product does not require classification and labeling as hazardous according to CLP/GHS.
3.3. Other hazards According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment Organic substances in powder form may have the potential to cause dust explosions.

Section 4 - FIRST AID MEASURES

4.1. Description of first aid measures General information
Seek medical assistance if discomfort continues
After inhalation
Remove the casualty into fresh air and keep him calm.
After contact with skin
In case of contact with skin, clean with soap and water.
After contact with eyes .: Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.
After ingestion :If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label
4.2. Most important symptoms and effects, both acute and delayed Symptoms

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No symptoms known currently.
Hazards : No hazards known at this time.
4.3. Indication of any immediate medical attention and special treatment needed Treatment
Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media
water spray jet foam
Extinguishing media that must not be used for safety reasons
Full water jet carbon dioxide dry powder
5.2. Special hazards arising from the substance or mixture
In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx)
5.3. Advice for firefighters Special protective equipment for firefighting
Use self-contained breathing apparatus

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Wear suitable personal protective equipment.
6.2. Environmental precautions : Do not allow entry to drains, water courses or soil
6.3. Methods and material for containment and cleaning up
Take up mechanically Avoid dust formation and electrical charging (sparking) because dust explosion might occur. When picked up, treat material as prescribed under heading "Disposal".
6.4. Reference to other sections Additional information
Information regarding Safe handling, see chapter 7

Section 7 - HANDLING AND STORAGE

7.1. Precautions for safe handling
Advice on safe handling
When used and handled appropriately no special measures are needed Avoid dust formation.
Advice on protection against fire and explosion
Take precautionary measures against electrostatic charges - earthing necessary during loading operations. Keep away from sources of ignition Dust can form an explosive mixture with air.
Dust explosion class : ST1 Capable of dust explosion
7.2. Conditions for safe storage, including any incompatibilities Further information on storage conditions : Keep container dry
7.3. Specific end use(s)

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Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values :Exposure limit values are not available.

DNEL/DMEL values :DNEL/DMEL values are not available.

PNEC values :PNEC values are not available.

8.2. Exposure controls

General protective measures

Observe the usual precautions for handling chemicals.

Hygiene measures

Wash hands before breaks and after work.

Use barrier skin cream.

Remove soiled or soaked clothing immediately and clean thoroughly before using again.

Respiratory protection : Wear dust mask when handling large quantities

Hand protection : Nitrile rubber gloves

Minimum breakthrough time (glove) : not determined

Minimum thickness (glove): not determined

Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements

Eye protection : safety glasses

Body protection : working clothes

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form : Powder Mean original particle size : 0.05 um

Color : Blue Odour: not specified

pH value : 7-8 Melting point (decomposition) : Applies to pigments - No melting point up to the decomposition temperature.

Flash point : Not applicable Evaporation rate : not tested.

Flammability : NonP-Elammable

Combustion number : no data

Minimum ignition energy : no data

Minimum ignition energy : no data

Vapour pressure: Not applicable

Solubility in water: Insoluble

Octanol/water partition coefficient (log Pow): Not determined

Ignition temperature: not tested

Self-ignition temperature: not tested

Thermal decomposition: > 220 °C Method : DTA

Viscosity (dynamic): Not applicable

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Oxidizing properties: not tested
9.2. Other information Density:
Density: 1.65-1.70g/cm3
Bulk density:

Section 10 - STABILITY AND REACTIVITY

10.1. Reactivity: See section 10.3. "Possibility of hazardous reactions"
10.2. Chemical stability: Stable.
10.3. Possibility of hazardous reactions
When handled and stored appropriately no dangerous reactions are known
10.4. Conditions to avoid
10.5. Incompatible materials: not known
10.6. Hazardous decomposition products
When handled and stored appropriately, no dangerous decomposition products are known

Section 11 - TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects .
Acute oral toxicity: LD50 > 2000 mg/kg (rat)
Acute dermal toxicity: not tested.
Irritant effect on skin: non-irritant (rabbit) Method: FDA guideline
Irritant effect on eyes: non-irritant (24h, rabbit eye) Method: FDA guideline
Sensitization: non-sensitizing Method :
Genetic toxicity in vitro: Test type: PRIVAL Modification of AMES Test For Azo Dyes
Test system: Strains of Salmonella typhimurium.
Concentration: 3 - 5000
Metabolic activation: with and without
Result: Negative with and without metabolic activation
Method: OECD 471
Test type: PRIVAL Modification of AMES Test For Azo Dyes
Test system: Escherichia coli
Concentration: 3 - 5000
Metabolic activation: with and without
Result: Negative with and without metabolic activation
Method:
Assesment of mutagenicity: not tested.
Assessment of carcinogenicity: not tested.
Assessment of toxicity to reproduction: not tested.

Section 12 - ECOLOGICAL INFORMATION

12.1. Toxicity

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Fish toxicity: not tested.
Daphnia toxicity: The product was tested above its maximum solubility., No observable toxic effect in saturated solution.
Algae toxicity: not tested.
Bacteria toxicity: not tested.
12.2. Persistence and degradability
Biodegradability: Pigments are highly stable in accordance with the specifications and therefore only slightly biodegradable in the conditions of sewage treatment plants or surface waters.
12.3. Bioaccumulative potential
Bioaccumulation: not tested.
12.4. Mobility in soil
Behaviour in environmental compartment : No known data.
12.5. Results of PBT and vPvB assessment
12.6. Other adverse effects
Additional ecotoxicological remarks: No data available.

Section 13 - DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Product
Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities
Uncleaned packaging
Packaging that cannot be cleaned should be disposed of as product waste

Section 14 - TRANSPORT INFORMATION

Section 14.1. to 14.5.
ADR not restricted
ADNR not restricted
RID not restricted
IATA not restricted
IMDG not restricted
14.6. Special precautions for user
See sections 6 to 8 of this Safety Data Sheet.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No transport as bulk according IBC - Code.

Section 15 - REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Other regulations ： Apart from the data/regulations specified in this chapter,

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no further information is available concerning safety-, health- and environmental protection.

15.2. Chemical safety assessment ： No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

Section 16 - ADDITIONAL INFORMATION

To the best of our knowledge, the information contained herein is accurate. However producer nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.