BEST DYE CHEM
MATERIAL SAFETY DATA SHEET

1. SUBSTANCE / PREPARATION AND COMPANY IDENTIFICATION

Product code	**:**	**Beta Blue 153 K**
Chemical Family	**:**	**Copper Phthalocyanine**
Colour Index Name	**:**	**Pigment Blue 15.3**
Colour Index Number	**:**	**74160**

User Description

Synthetic Organic Pigments are found in most products that are coloured. , Such as Printing Inks, Paints, Plastics, Textiles fibres, Synthetic & Natural Rubber Colouring and numerous other applications.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Phthalocyanine Blue 15 C.A.S. # 147 - 14 - 8

This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication Standard (29 CFR 1910. 1200)

3. HAZARDS IDENTIFICATION

Emergency Overview

When involved in a fire or exposed to high temperature for an extended period of time, organic pigments may smoulder or burn evolving noxious fumes.

4. FIRST AID MEASURES

Eye Contact

Flush eyes thoroughly with large amounts of water for at least fifteen minutes . Get medical attention.

Skin Contact

Wash skin with soap and water. remove severely contaminated clothing and clean before reuse. Seek medical attention.

Inhalation

Remove to fresh air. Get medical attention if breathing is difficult.

Ingestion

Do not give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Non-flammable organic pigments product.

Extinguishing Media
Carbon dioxide, dry chemical powder or foam recommended. Apply water to cool exposed closed containers.

Special Fire-Fighting Procedures
Self contained breathing apparatus (SCBA) and full protective equipment recommended.

Unusual Fire-fighting Procedures
Fire or excessive heat may produce hazardous decomposition products.

General Hazard
Improper handling of any finely divided organic pigment powder may lead to dust cloud formation.

Flammability Data

Flash Point	: Non-flammable material
Flammability Limits	: Not applicable
Auto-Ignition Temperature	: Not applicable

NEPA Rating		HMIS Rating	
Health	1	Health	1
Flammability	1	Flammability	1
Reactivity	0	Reactivity	0

6. ACCIDENTAL RELEASE MEASURES

Small Spill
For dry powder spills, inert materials such as sand may be added to control dusting prior to cleanup. Industrial grade vacuum sweepers are also recommended. Place spilled material into appropriate waste containers for disposal.

Large Spill Contain spilled material immediately with an inert substance such as sand or earth. Use plastic or aluminium shovel to transfer diluted waste material into appropriate containers for disposal.

Airborne organic dust may be an explosion hazard. Secure possible sources of ignition and avoid dusting.

7. HANDLING AND STORAGE

Handling
Avoid exposure through the use of appropriate engineering controls and good industrial hygiene practices.

Storage
Store in a moderately cool, dry, well-ventilated area away from direct sources of heat. Empty containers may contain product residue and should be handled appropriately. Position containers so that any labeling information is visible.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls
The use of local exhaust ventilation is recommended.

Personal Protection
NIOSH approved dust respirators are recommended when handling in areas of pigment dusting. Safety glasses are also recommended. Impervious clothing should be worn when gross contact is likely, such as when cleaning up spills of large amounts.

Exposure Limits
There are no ACGIH TLV's or OSHA PEL's established for this product.

The OSHA PEL for nuisance dust is 15 mg/m³ (total dust) and 5 mg/m³ (respirable dust) recommended. The recommended ACGIH TLV for nuisance dust is 10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Bright reddish blue powder / Press cake
Colour	: Blue
Melting Point	: N.A.
Specific Gravity	: 1.6
Solubility	: Max. 0.1 %
% Volatiles	: Max. 1
Vapour Pressure	: N.A.
Boiling Point	: N.A.
Molecular Formula	: C32 H16 N8 Cu
Volatile Organic Compound	: None

10 STABILITY AND REACTIVITY

General
This product is stable compound and hazardous polymerisation will not occur.

Incompatibility
Not incompatible.

Hazardous Decomposition Products
When involved in a fire, burning organic pigments may evolve noxious gases , which are toxic. These compounds may include oxides of carbon and nitrogen.

11 TOXICOLOGICAL INFORMATION

General

* Based upon industry-wide experience over many years of manufacturing and published toxicological studies, organic pigments in general are considered to be practically non-toxic. This low order of toxicity is probably due to the fact that pigments are somewhat inert and insoluble substances.

* There are no established TLV's or PEL's for this product.

Acute (Short - Term) Toxicity

* Skin and eye irritation studies have been reported to be negative.
* An aquatic toxicity study on water fleas and bluegill fish indicated that Pigment Blue 15 did not constitute a significant hazard in the aquatic environment.

Chronic (Long-Term) Toxicology
There was no evidence of absorption or adverse health effects based upon a 90-day feeding study in rats and mice.

Mutagenicity
In vitro screening test for mutagenicity had reported negative results in an Ams Salmonella culture with DMSO solution or dispersion of commercial pigments.

12 ECOLOGICAL INFORMATION

This product has not been evaluated for its ecotoxicity. However the biodegradation of organic colorants under aerobic conditions is expected to be poor and there is no evidence to suggest that they create any significant ecology problems when released into the environment. Since organic pigments are generally insoluble compounds, they are believed to have minimal bioaccumulation and bioavailability characteristic.

13 DISPOSAL CONSIDERATION

General
This product must be disposed of in accordance with all applicable federal, state and local regulations.

Waste Management
Incineration and landfilling are recommended disposal techniques. Contact the state or local environmental agency for specific rules.

This product is not identified as a RCRA hazardous waste under 40 CFR 261 and is not regulated under CERCLA (Superfund)

14 TRANSPORT INFORMATION

D.O.T. Shipping name (49 CFR 172. 101 - 102)	: Not regulated
D.O.T. Hazard Class (49 CFR 172. 101 - 102)	: None
D.O.T. Label	: None
D.O.T. Placard	: None
Bill of Lading Description	: Pigments NOI Dry
CERCLA Substance (49 CFR)	: Not regulated
Reportable Quantity (RQ)	: None

International

UN/NA number	: Not regulated
IMDG/IACO Classification	: Not regulated
IATA Classification	: Not regulated

15 REGULATORY INFORMATION

OSHA hazard Communication Standard Status
This product is not considered to be a hazardous substance under OSHA's Federal Hazard Communication Standard 29 CFR 1910.1200

Toxic Substance Control Act (TSCA) Status
All of the ingredients of this material have been reported to the U.S. EPA and are included in the TSCA chemical inventory.

This product is certified to be in full compliance with Section 6(e) of TSCA, 15 U.S.C., 2605(e) regarding inadvertently generated polychlorinated biphenyl (PCB's)

CERCLA Reportable Quantity
None (Not regulated)

SARA Title III

Section 302 (EHS)	: None
Section 311/312 (Acute)	: None
Section 313	: None

RCRA

Not regulated as a hazardous waste under RCRA

Canadian WHIMS

This material is not considered to be a controlled product under WHIMS. This Material Safety Data Sheet has been prepared in compliance with WHIMS regulations.

CEPA (Canada)

All of the ingredients of this material have been listed on the Domestic Substances List (DSL)

EINECS (European Economic Community)

All components of this product are on the EINECS list

California's Proposition 65 Regulated Substances

Polychlorinated Biphenyl's (PCB's) : Concentrations may vary from Non-detectable upto 25 parts per million (ppm).

CONEG Status

This Product is certified to be in full compliance with CONEG Model Legislation for packaging and packaging ink components.

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