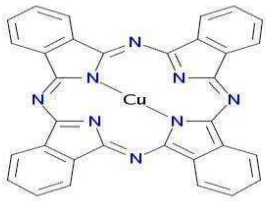
Safety Data Sheet
Pigment Blue 15.3

JAYSYNTH

Section 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY	
1.1 Identification of the substance	
• **Substance Name**	: Pigment Phthalocyanine
• **EC#**	: 205-685-1
• **CAS#**	: 147-14-8
• **Trade Names**	: Beta Blue BFP
• **REACH Pre-Registration number**	: 05-2114084766-35-0000
• **Synonym:**	: C.I. Pigment Blue 15.3
	: 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper
	: Copper(II) phthalocyanine
• **Chemical Formula**	: $C_{32}H_{16}CuN_8$
• **Structure:**	
1.2 Use of the Substance/Mixture:	
• Plastics, Paints, Rubber & Ink Applications	
• Polymers industry	
• Paints, lacquers and varnishes industry	
1.3 Company/undertaking identification:	
• **Manufacturer Details:**	Plant-1 Plot no: G-5, Chemical zone, Taloja INDl. Estate. Taloja Audogiek Vasahat, Raighd, Maharashtra- RAIGAD– 410208 Plant-2 Plot no: A-29, Patalganga MIDC, Patalganga, Industrial area, Raigad, Maharastra- 410220.
• **Only Representative Details:**	Jaysynth (Europe) Limited Europa Business Park, Birdhall Lane, Cheadle Heath Phone : +44-(0)161-428-0906 Fax : +44-(0)161-428-0907
1.4 Emergency Telephone:	

• **Emergency Telephone & Contact**	Mr. Rajesh Pal Phone : +44-(0)161-428-0906 Fax : +44-(0)161-428-0907

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance as per CLP

2.1.1 Classification according to Regulation (EC) # 1272/2008 (CLP/GHS)

• Hazard Class and Category Code(s)	Classification not required (no dangerous properties)
• Hazard statement Code(s)	Classification not required (no dangerous properties)

2.1.2 Classification according to Directive 67/548/EEC(DSD)

Classification not required (no dangerous properties)

2.2 Labelling:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 (CLP/GHS)

• **Hazard Pictogram :**	Classification not required (no dangerous properties)
• **Hazard Statements :**	Classification not required (no dangerous properties)
• **Precautionary Statements :**	P280: Wear protective gloves/protective clothing/eye protection/face protection P282: In case of inadequate ventilation wear respiratory protection. P272: Contaminated work clothing should not be allowed out of the workplace. P302+P352 : IF ON SKIN: Wash with plenty of soap and water

2.2.2 Labeling according to Directive 67/548/EEC (DSD)

• **R-phrases**	Classification not required (no dangerous properties)
• **S-phrases:**	Classification not required (no dangerous properties)
2.3. Other hazards	None

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Constituent	CAS No.	EC No.	Typical concentration	Concentration range	Remarks
Pigment Phthalocyanine Blue	147-14-8	205-685-1	-		None

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid measures:

• **Eye contact :**	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention
• **Skin Contact :**	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
• **Inhalation :**	Remove the victim to fresh air. If required get medical attention immediately.
• **Ingestion :**	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

Treat according to the symptoms, no known specific antidote.

Section 5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media: water spray, dry extinguishing media, foam

5.2. Special hazards arising from the substance or mixture

• **Flammability of the Product**	: Non flammable
• **Auto-Ignition Temperature**	: 356 °C at 1.013 hPa
• **Flash Points**	: Not relevant (The substance is a solid.)
• **Flammable Limits**	: No data available
• **Products of Combustion**	: No data available

5.3. Advice for fire-fighters

Firefighters should wear full protective clothing including self-contained breathing apparatus.
SMALL FIRE**:** Use DRY chemical powder.
LARGE FIRE**:** Use water spray, fog or foam. Do not use water.

Section 6 - ACCIDENTAL RELEASE MEASURES	
6.1. Personal precautions, protective equipment and emergency procedures	
• **Personal Protective Equipment**	Avoid inhalation of dust and avoid dust formation. Use personal protective clothing.
• **Skin Protection**	Avoid exposure to liquids or vapors. And wear gloves.
• **Respiratory Protection**	Where airborne exposure is likely, use NIOSH-approved respirator with an N95 particulate filter.
• **Work Practices**	Eye wash fountains should be provided. Employees who have skin contact with pigment blue shall immediately wash and shower (if necessary) for 15 min. Contaminated clothing shall either be disposed of or placed into impervious containers and cleaned before re-use.
6.2. Environmental precautions:	
Do not allow product to enter sewage system or water courses	
6.3. Methods and material for containment and cleaning:	
• Small Spill:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
• Large Spill:	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the SDS and with local authorities.
Section 7 - HANDLING AND STORAGE	
7.1 Precautions for safe handling	
• No special measures necessary provided product is used correctly. Protect against heat.	
• Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed	
7.2 Conditions for safe storage:	
• Keep container tightly closed and in a cool place. Store protected against freezing.	
• Containers which are opened must be carefully resealed and kept upright to prevent leakage.	

7.3 Specific end use(s):	
• As mentioned by client	
Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 Control parameters:	
Threshold Limit Values:	C.I. Pigment Blue 15 is exempted from the requirement of a tolerance when used as a dye or coloring agent in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops only
8.2 Exposure Control:	
• **Engineering measures**	Handle in accordance with good industrial hygiene and safety practice. Due to the coloring properties of the product closed work clothes should be used, to avoid stains during manipulation. Wash soiled clothing immediately.
• **Respiratory Protection:**	If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate NIOSH/MSHA respiratory protection must be provided
• **Hand Protection**	Wear appropriate chemical protective gloves.
• **Eye protection**	Wear safety glasses; chemical goggles for fumes which may arise from thermal processing.
• **Skin protection**	Use impervious gloves. Use of impervious apron and boots are recommended
Section 9 – PYYSICAL & CHEMICAL PROPERTIES:	
9.1 General Information:	
• **Physical state**	: Solid
• **Color**	: blue
• **odour**	: odourless
9.2 Important health, safety and environmental information	
• **pH(1% soln/water)**	: Neutral
• **Molecular Weight**	: 576.08
• **Boiling point/boiling range**	: Not available
• **Melting point**	: 350 degree C

• **Auto ignition point**	: 356 °C at 1.013 hPa
• **Specific gravity**	: 1.62
• **Vapour pressure**	: < 0,0001 hPa at 20 °C
• **Vapour density**	: Not available
• **Volatility**	: Not available
• **Solubility**	: Insoluble in water
• **log Po/w**	: Not available
• **Index of refraction**	: Not available

Section 10 - STABILITY AND REACTIVITY

• Reactivity	: Stable under normal temperature and pressure
• Chemical stability	: Stable under normal temperature and pressure
• Possibility of hazardous reactions	: Dust explosion hazard.
• Conditions to avoid	: Avoid humidity.
• Hazardous decomposition products	: No hazardous decomposition products if stored and handled as prescribed/indicated.
• Incompatible materials	: Strong oxidizing agents, nitric acid

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

11.2Irritation Corrosion:

- **Skin**May cause skin irritation
- **Eye:** In vivo: Rabbit, 24 h, substance was not washed out: not irritating (conjunctivae redness in 2/2 treated eyes as well as in 2/2 control eyes, mean score 0.16, fully reversible within 72 h; Draize, BASF AG 1971, comp. OECD 405)

11.3Sensitization

- No data available

11.4CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

• **Carcinogenicity :**	Not classified
• **Mutagenic effects :**	Not classified
• **Reprotoxic effects :**	Not classified

11.5 Other toxic effects on humans:	
• **Inhalation :**	Not available
• **Eyes :**	Eye In vivo Rabbit, 24 h, substance was not washed out: not irritating (conjunctivae redness in 2/2 treated eyes as well as in 2/2 control eyes, mean score 0.16, fully reversible within 72 h; Draize, BASF AG 1971, comp. OECD 405)
• **Ingestion :**	May cause digestive tract disturbances.
• **Chronic toxicity :**	No data available
11.6 NIOSH Immediately Dangerous To Life or Health Concentration (IDLH):	
• No information available	
11.7 Specific target organ toxicity:	
• **Single exposure :**	No experimental or epidemiological sufficient evidence for specific target organ toxicity (single exposure)
• **Repeated exposure :**	No experimental or epidemiological sufficient evidence for specific target organ toxicity
Section 12 - ECOLOGICAL INFORMATION	
12.1 Ecotoxicity:	
LC50 (96 h) : > 100 mg/L test mat. (nominal)	
12.2 Persistence and degradability:	
Regarding all available data on biotic and abiotic degradation, bioaccumulation and toxicity it can be stated that the substance does not fulfill the PBT criteria (not PBT) and not the vPvB criteria (not vPvB).	
12.3 Bioaccumulative potential:	
• Due to the low solubility of Phthalocyanine in water and in Octanol accumulation of the substances in organisms is not expected	
12.4 Mobility in soil:	
• The Koc of Pigment Blue 15 is estimated at approximately 67(SRC), using an estimated log Kow (1) and a regression-derived equation (2, SRC). According to a recommended classification scheme (3), this estimated Koc value suggests that Pigment Blue 15 has high mobility in soil (SRC). However the ionic nature of the pigment may slow down or prevent leaching (SRC).	
12.5 Results of PBT and vPvB assessment:	

• Regarding all available data on biotic and abiotic degradation, bioaccumulation and toxicity it can be stated that the substance does not fulfill the PBT criteria (not PBT) and not the vPvB criteria (not vPvB).	
12.6 Other adverse effects:	
• No data available	
Section 13 - DISPOSAL CONSIDERATIONS	
• **Waste treatment methods :**	**Container disposal:** Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents. **Contaminated packaging:** Keep waste packaging separate. Waste should be disposed of in a permitted chemical waste facility and in accordance with local and state laws.
Section 14 - TRANSPORT INFORMATION	
• **UN Number :**	Not regulated as a hazardous material.
• **UN proper shipping name :**	Not regulated
• **Transport hazard class :**	Not regulated
• **Packing group :**	Not regulated
• **Environmental hazards :**	Not regulated
• **Special precautions for user :**	Fight fire from protected location or maximum possible distance.
Section 15 - REGULATORY INFORMATION	
15.1 Other regulatory information:	
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.	
Safety, health and environmental regulations/legislation specific for the substance or mixture Control of Substances Hazardous to Health Regulations (COSHH) 2002 SI 2002/2677 and COSHH Essentials: Easy steps to control chemicals - Control of Substances Hazardous to Health Regulations HSG193. ***Inventory Status*** Listed in: Australia (AICS) Canada (DSL/NDSL) China (IECSC) European Union (EINECS/ELINCS) South Korea (KECI) Philippines (PICCS) New Zealand Inventory (NZIoC)	

• **HMIS (Hazardous Materials Identification system) classification** :	**He a lth** 1 **Fire** 1 **Re a c t iv it y** 0 **Personal Protection** 1 = Irritation or minor reversible injury possible. 1 = Materials that must be preheated before ignition will occur. 0= Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives. **E =**  Safety Glasses +  Gloves +  Dust Respirator
• **NFPA (National Fire Protection Association)** :	**He a lth** 1 **Fire** 1 **Re a c t iv it y** 0 **Personal Protection** 1 = Exposure would cause irritation with only minor residual injury. 1 = Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur, and some finely divided suspended solids that do not require heating before ignition can occur. 0= Normally stable, even under fire exposure conditions, and is not reactive with water.
15.2 Chemical Safety Assessment:	
• A chemical safety assessment has been carried out for the substance or the mixture by the supplier (LR) -Yes	

Section 16 – OTHER INFORMATION
16.1 Technical Advice:
• Use data given in this Safety Data Sheet and make an inventory list of all chemicals used in the factory
• Create a Register for Workplace Chemicals;
• Set priorities concerning the safety in the organization
• Create emergency plans for the assessed hazards;
• Organize occupational health care and regular surveys as necessary;
• Organize contacts with authorities/laboratories to create a monitoring system for chemical hazards, and to reliably measure and/or estimate occupational exposures to chemicals when needed;
• Start collecting case studies of accidents and sickness records in the enterprise to create a basis for priority measures in the control of hazards;
• Involve workers in safety organizations, such as the system of Safety Representatives and Committees.
• Do regular inspection using checklists made for the particular chemicals and chemical processes in use;
• Mark and label all chemicals;
• Keep at hand an inventory list of all chemicals handled in the place of work together with a collection of Chemical Safety Data Sheets for these chemicals;
• Train workers to read and understand the Chemical Safety Information, including the health hazards and routes of exposure; train them to handle dangerous chemicals and processes with respect;
• Plan, develop and choose the safe working procedures;
• Reduce the number of people coming into contact with dangerous chemicals;
• Reduce the length of time and/or frequency of exposure of workers to dangerous chemicals;
• Train workers to know and understand the emergency procedures;
• Equip and train workers to use personal protective equipment properly after everything possible has been done to eliminate hazards by means of other methods;
16.2 List of relevant R phrases:
Not classified