

SHINOL INTERNATIONAL

MATERIAL SAFETY DATA SHEET

According to EEC Directive 91/155/EEC

I. PRODUCT IDENTIFICATION

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| TRADE NAME | SHINOCHEM BLUE BK-P- 828 | |
| GENERIC NAME | C.I. PIGMENT BLUE 15:1 | |
| CONSTITUTION NUMBER | 74160 | |
| CAS REGISTRY NO. | 147 - 14 - 8 | |
| CHEMICAL CLASS | Phthalocyanine Pigment | |
| CHEMICAL TYPE | ORGANIC | |
| CHEMICAL DESCRIPTION | COPPER PHTHALOCYANINE PIGMENT | |
| EMPIRICAL FORMULA | $C_{32}H_{16}N_8Cu$ | |

II. COMPOSITION/INFORMATION OF INGREDIENTS

| SUBSTANCE | CAS NO. | % BY WEIGHT |
|----------------------------------|----------|-------------|
| Copper Phthalocyanine Blue Crude | 147-14-8 | 99% |

III. TOXICOLOGICAL INFORMATION

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|----------------------------|----------------------------------|
| ACUTE ORAL TOXICITY (LD50) | 5000 mg/kg (tested on rats) |
| SKIN IRRITATION | NON IRRITANT (tested on rabbits) |
| ACUTE ORAL TOXICITY (LD50) | NON IRRITANT (tested on rats) |

IV. PHYSICAL AND CHEMICAL PROPERTIES

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| APPEARANCE | FINE BLUE POWDER |
| SPECIFIC GRAVITY | 1.5 |
| BULK DENSITY | 0.36 gm/cc |
| SOLUBILITY IN WATER | NEGLIGIBLE |
| MELTING POINT | UNDETERMINED |
| BOILING POINT | UNDETERMINED |
| VAPOUR PRESSURE | NOT APPLICABLE |

V. HAZARDOUS INGREDIENTS

NONE

VI. ECOLOGICAL INFORMATION

THIS PRODUCT IS INSOLUBLE IN WATER, AND IT IS THUS NOT POSSIBLE TO GIVE RELIABLE INFORMATION BECAUSE OF ITS INSOLUBILITY. IT IS UNLIKELY TO BE HARMFUL TO AQUATIC ORGANISM.

VII. FIRE AND EXPLOSION HAZARD DATA

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| FLAMMABLE LIMITS | LOWER-NIL, UPPER-NIL.IN AIR. |
| EXTINGUISHING MEDIA | WATER |
| SPECIAL FIRE FIGHTING | PERSONAL FIRE FIGHTING EQUIPMENT PROCEDURE MUST BE USED. |
| VIII. HEALTH HAZARD DATA | |
| EFFECTS OF OVER EXPOSURE | CONTACT WITH EYES AND SKIN MAY RESULT IN IRRITATION, INGESTION MAY RESULT IN GASTRIC DISTURBANCE. INHALATION OF DUST MAY IRRITATE THE RESPIRATORY TRACT. |
| IX. EMERGENCY AND FIRST AID PRODCEDURE | |
| EYES | FLUSH EYES WITH FLOWING WATER FOR 15 MINUTES IF IRRITATION CONSULT A PHYSICIAN. |
| SKIN | WASH AFFECTED SKIN THOROUGHLY WITH WATER. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. |
| INGESTION | DILUTE WITH WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. |
| INHALATION | MOVE TO FRESH AIR AID IN BREATHING. IF NECESSARY GIVE OXYGEN AND GET MEDICAL ATTENTION. NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS. |
| X. STABILITY AND REACTIVITY DATA | |
| DECOMPOSITION TEMPERATUR | C |
| DANGEROUS REACTION | NO DANGEROUS REACTIONS KNOWN |
| HAZARDOUS DECOMPOSITION | OXIDES OF NITROGEN & CARBON PRODUCTS |
| XI. SPILL OR LEAK PROCEDURES | |
| STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED | IF MATERIAL IS NOT CONTAMINATED SCOOP IN TO A CLEAN CONTAINER FOR USE; IF CONTAMINATED SCOOP OR VACCUM IN TO A RECEPTACLE FOR DISPOSAL |
| WASTE DISPOSAL METHOD | SANITARY LAND FILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. |
| XII. HANDLING AND STORAGE | |
| HANDLING: THIS PRODUCT SHOULD BE HANDLED UNDER CONDDITIONS OF GOOD INDUSTRIAL HYGIENE. IN PARTICULAR, CREATING AND INHALING DUST IS TO BE PREVENTED BY THE USE OF LOCK EXHAUST VENTILATION DURING HANDLING AND WEIGHING. AS WITH MOST ORGANIC POWDERS, IT MAY FORM FLAMMABLE DUST CLOUDS IN AIR, PREVENT DUST COLLECTION BY REGULAR CLEANING. | |
| STORAGE : STORE IN A COOL, DRY PLACE AND RESEAL CONTAINER AFTER USE. DO NOT STORE WITH EATABLES. | |
| XIII. SPECIAL PROTECTION INFORMATION | |
| RESPIRATORY PROTECTION | USE A DUST RESPIRATOR APPROVED BY NIOSH/MESA. |
| VENTILATION | LOCAL EXHAUST RECOMMENDED. |
| PROTECTION GLOVES | RUBBER OR PVC GLOVES. |
| OTHER PROTECTIVE EQUIPMENTS NOT NECESSARY. | |

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| EYE PROTECTION | PROTECTION AGAINST DUST PARTICLES RECOMMENDED. |
| XIV. TRANSPORT INFORMATION | |
| NO SPECIAL PRECAUTIONS REQUIRED | |
| XV. SPECIAL PRECAUTIONS | |
| PRECAUTIONARY LABELLING | THESE FALL IN THE NON- REGULATED CLASS. |
| OTHER HANDLING AND STORAGE CONDITIONS. | DO NOT STORE WITH EATABLES. |
| XVI. OTHER REGULATORY INFORMATION | |
| TSCA: ALL COMPONENTS OF THIS PRODUCT ARE REGISTERED UNDER THE REGULATIONS OF THE TOXIC SUBSTANCES CONTROL ACT. D.O.T. HAZARD CLASSIFICATION (49) CFR (172) : NON HAZARDOUS. D.O.T. LABELS REQUIRED : NONE | |
| NOTE : THE INFORMATION MENTIONED IN THIS DATA SHEET IS COMPILED FROM THE DIFFERENT SOURCES AND SHOULD BE TAKEN AS GUIDELINE ONLY. FOR DETAILED INFORMATION REGARDING THE HEALTH AND SAFETY DATA ALSO PLEASE REFER TO NPIRI RAW MATERIAL DATA HANDBOOK VOL.4 PIGMENTS. | |
| PREPARED BY : TECHNICAL SERVICE DEPARTMENT, SHINOL INTERNATIONAL. | |
| PLACE : AHMEDABAD LAST REVIEW DATE : 1 st SEPTEMBER, 2018. | |