

MATERIAL SAFETY DATA SHEET

According to EEC Directive 91/155/EEC

I. PRODUCT IDENTIFICATION		
GENERIC NAME	C.I. PIGMENT BLUE 15:4	
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 ₈ Cu	
II. COMPOSITION/INFORMATION OF INGREDIENTS		
SUBSTANCE	CAS NO.	% BY WEIGHT
Copper Phthalocyanine Blue Crude	147-14-8	99%
III. TOXICOLOGICAL INFORMATION		
ACUTE ORAL TOXICITY (LD50)	5000mg/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		
APPEARANCE	FINE BLUE POWDER	
SPECIFIC GRAVITY	1.5	
BULK DENSITY	0.44 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		
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 PROCEDURE :	
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 TEMPERATURE	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.	
EYE PROTECTION	PROTECTION AGAINST DUST PARTICLES RECOMMENDED.
XIV. TRANSPORT INFORMATION	
NO SPECIAL PRECAUTIONS REQUIRED	
XV. SPECIAL PRECAUTIONS	
PRECAUTIONARY LABELLING	THESE FALL IN THE NONP 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.