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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

CHEMICAL NAME AND SYNONYMS Direct Blue 1	TRADE NAME AND SYNONYMS DIRECT BRILLIANT BLUE FF
CHEMICAL FAMILY DIAZO	FORMULA

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	NA	SPECIFIC GRAVITY (H ₂ O=1)	NA
VAPOR PRESSURE (mm Hg.)	NA	PERCENT VOLATILE BY VOLUME (%)	<2% AS WA
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (— = 1)	
SOLUBILITY IN WATER	<10%		
APPEARANCE AND ODOR	DARK BLUE POWDER		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NA	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA	WATER - CARBON DIOXIDE - DRY CHEMICAL			
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE			
	NONE			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	UNKNOWN
EFFECTS OF OVEREXPOSURE	
EMERGENCY AND FIRST AID PROCEDURES	NON IRRITANT- NON SENSITIZER
	SKIN CONTACT--WASH WITH SOAP & WATER
	EYE CONTACT- FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES
	GET MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
SWEEP UP PROMPTLY.
WEAR AN APPROVED RESPIRATOR
WASTE DISPOSAL METHOD
NORMAL PLANT WASTE--- BURRY OR INCINERATE

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	APPROVED DUST RESPIRATOR	
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	ACCEPTABLE OTHER
PROTECTIVE GLOVES	EYE PROTECTION	
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
AVOID UNNECESSARY PERSONAL CONTACT
OTHER PRECAUTIONS

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SECTION I

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CHEMICAL FAMILY	FORMULA

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	NA	SPECIFIC GRAVITY (H ₂ O=1)	NA
VAPOR PRESSURE (mm Hg.)	NA	PERCENT VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (=1)	NA
SOLUBILITY IN WATER	APPRECIABLE		
APPEARANCE AND ODOR			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	NA	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA	FOAM OR CARBON DIOXIDE OR DRY CHEMICALS OR WATER			
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS	AIR PAC RECOMMENDED TO AVOID BREATHING FUMES			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	UNKNOWN
EFFECTS OF OVEREXPOSURE	LOCAL SKIN IRRITATION & POSSIBLE DERMATITIS
EMERGENCY AND FIRST AID PROCEDURES	REMOVE PATIENT FROM AFFECTED AREA. FLUSH WITH WATER. WASH WELL WITH MILD SOAP. REFER TO A DOCTOR

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	MECHANICALLY REMOVE POWDER RAISING AS LITTLE DUST AS POSSIBLE. AVOID SKIN CONTACT
WASTE DISPOSAL METHOD	SANITARY LAND FILL IN ACCORDANCE WITH LOCAL STATE & FEDERAL REGULATIONS

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	WILSON 560 DUST RESPIRATOR	
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES	RUBBER	EYE PROTECTION SAFETY GLASSES
OTHER PROTECTIVE EQUIPMENT	COVERALLS OR APRONS TO AVOID SKIN CONTACT	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
OTHER PRECAUTIONS	AVOID FIRE OR OPEN FLAME DO NOT TAKE INTERNALLY. AVOID SKIN CONTACT.

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