BBC Biochemical

MATERIAL SAFETY DATA SHEET

Section 1. C	Chemical Product and Compa	any Information	
Common Name:	Path-Mark™ Margin Ink Green	Code:	MA0116016, MA0116001
Supplier:	BBC Biochemical	MSDS#:	MA0116001
Synonym:	None.	Validation Date:	2-25-09
Trade Name:	None.	Print Date:	2-25-09
Material Uses:	Not Available	Responsible Name:	Dr. B
Manufacturer:	BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergence	<u>/: 1-800-424-9300 Chemtrec</u> USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477

Section 2. Composition and Information on Ingredients			
Name	CAS#	OSHA PEL/TWA	Exposure Limits
Phthalo Green Pigment	1328-53-6		
2) Surfactants NV	Proprietary		
3) Propylene Glycol	57-55-6		
4) Water	7732-18-5		
5) Ammonium Hydroxide 28%	1336-21-6	Not listed	
6) Preservatives			

Section 3. Hazard	ds Identification			
Physical State and Appearance	Liquid/paste; green. Mild ammoniacal odor.			
Emergency Overview	Not available.			
Routes of Entry	Inhalation, ingestion, and skin absorption.			
Potential Acute Health	Effects			
Eyes	May cause irritation (redness, tearing, burning) if vapors present in excessive amount.			
Skin	Some irritation; overexposure can cause defatting, dermatitis.			
Inhalation	tion May cause dizziness, headache, nausea, and narcosis; can aggravate asthma-like conditions.			
Ingestion	May cause blindness, nausea, damage to gastrointestinal tract, liver, kidneys, and cardiovascular system.			
Potential Chronic Healt	h			
Effects	Components not listed (IARC, NTP, OSHA) as cancer causing agents.			
Medical Conditions				
Aggravated by Overexposure	Kidney, liver, heart, and GI conditions.			
Overexposure/ Signs/Symptoms	rel			

Section 4. First Aid Measures		
Eye Contact	Immediately flush thoroughly with water for at least 15 minutes.	
Skin Contact	Wash area thoroughly with copious amounts of water. Remove contaminated clothing and clean before wearing again.	
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped.	
Ingestion	If conscious, drink water. Seek medical attention. Do not induce vomiting.	
Notes to Physician	Not available.	

Section 5. Fire Fighting Measures	
Flammability of the Product	Not flammable.
Auto-ignition Temperature	Not available.

Flash Points	211 F (99C)
Flammable Limits	2.6/12.5 % by volume (lower/upper)
Products of Combustion	Carbon dioxide and possible carbon monoxide.
Fire Hazards in Presence	Keep away from excessive heat or open flame.
Of Various Substances	
Explosion Hazards in	Keep away from excessive heat or open flame.
Presence of Various	
Substances	
Fire Fighting Media	DO NOT use water, except as FOAM.
and Instructions	
Protective Clothing (Fire)	Fire fighters should use self-contained breathing apparatus and protective clothing.
Special Remarks on Fire	Vapor can travel distances to ignition source and flash back.
Hazards	
Special Remarks on	
Explosion Hazards	

Section 6. Accidental Release Measures		
Small Spill and Leak	Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition and provide ventilation.	
Large Spill and Leak	Same as above.	

Section 7, Ha	andling and Storage
Handling	Use adequate ventilation. Avoid repeated or prolonged skin contact or breathing of vapors. Do not breathe vapors. Do not get in eyes.
Storage	Store and use in areas away from heat, sparks, and open flame. Store in tightly closed containers in a cool, dry, well-ventilated, fire-resistant area. Store away from oxidizing agents.

Engineering Controls	e Controls / Personal Protection		
Personal Protection			
Eyes	Safety glasses with approved side shields should be worn at all times.		
Body	Protective clothing, such as a lab coat, to minimize skin contact.		
Respiratory	Use NIOSH or MSHA approved respirators in absence of proper environmental control.		
Hands	Neoprene. Nitrile or equivalent protective gloves.		
Feet	Impervious footwear should be worn to prevent skin contact.		
Personal Protection in			
Case of a Large Spill	See above.		
Product Name	Exposure Limits		
1)			
2)			
3)			
Consult Local authorities I	before acceptable exposure limits.		

Section 9. Physica	I and Chemical Properties	S	
Physical State and Appearance	Liquid/paste; green.	Odor:	Ammoniacal odor.
Molecular Weight	Not applicable.	Taste:	Vinous.
Molecular Formula	Not applicable.	Color:	Green.
pH (1%/Water)	Not applicable.	<u>- </u>	
Boiling/Condensation	365-374 F		
Point			
Melting/Freezing Point	Not applicable.		
Critical Temperature	Not applicable.		
Specific Gravity	1.21		
Vapor Pressure	<1.0 mm Hg 25C		
Vapor Density	2.62 Air =1		
Volatility	Not applicable.		
Odor Threshold	Not applicable.		
Evaporation Rate	<1.0 (BuAct=1)		
VOC	209 (lbs/gal); 250 gr/L		
Viscosity	Not available.		
Ionicity (in water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Miscible		
Physical Chemical	Not available.		

Comments

Section 10. Stabil	ity and Reactivity		
Stability and Reactivity	Stable.		
Conditions of Instability	Heat.		
Incompatibility with	Oxidizers.		
Various Substances			
Hazardous Decompositi			n. Toxic gases and vapors (i.e. carbon
Products	monoxide) may be releas	ed in a fire.	
Hazardous	Does not occur.		
Polymerization			
Section 11. Toxic	ological Information		
Toxicity to Animals	LD50: Not available.		
	LC50: Not available.		
Chronic Effects on	Not Available.		
Humans			
	Not Available.		
Humans			
Special Remarks on	Not available.		
Toxicity to Animals			
Special Remarks on	Not available.		
Chronic Effects on			
Humans	Harris Martal Cardani (in DDM	Landana albanida anata il	
Special Remarks on	Heavy Metal Content (in PPM		Calarium. F.O.
Other Toxic Effects	Antimony: <25.0	Cadmium: <10.0	Selenium: <5.0
on Humans	Barium: <25.0	Chromium: <5.0 Zinc <5.0	Arsenic: <30.0 Soluble Barium: <50.0
	Copper: <0.5%	ZIIIC <0.0	Suluble Dallulli. <50.0

Section 12. Ecolo	ogical Information
Ecotoxicity	Not available.
BODS and COD	Not available.
Biodegradable/OEDC	Not available.
Mobility	Not available.
Toxicity of the	Not available.
Products of	
Biodegradation	
Special Remarks on	Not available.
The Products of	
Biodegradation	

Section 13. Disposal Considerations	
Waste Information	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information		
DOT Classification	Non Hazardous.	
Marine Pollutant	Not available.	
Hazardous Substances	Not available.	
Reportable Quantity		
Special Provisions for	Not applicable.	
Transport		
TDG Classification	Not controlled under TDG (Canada).	
ADR/RID Classification	Not controlled under ADR (Europe).	
IMO/IMDG Classification	Not controlled under IMDG.	
ICAO/IATA Classification	Not controlled under IATA.	

Section 15. Other Information					
Label requirements					
Hazardous Material Information System (U.S.A.)	Health	1	National Fire	Fire Hazard	
	Fire Hazard	1	Protection	Health 1 Reactivity	
	Reactivity	0	Association (U.S.A.)	Specific Hazard	

Dath MaultM	N/a	ماما	0
Path-Mark™	IVIAI YIII	IIIK,	Green

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Personal Protection H
References
Other Special
Considerations
Notice to Reader
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries
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