SAFETY DATA SHEET



1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME:	Evans Blue		
PRODUCT NUMBER:	E2799		
COMPANY INFO:	<i>Phyto</i> Technology Laboratories® PO Box 12205, Shawnee, KS 66282-2205 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442 www.phytotechlab.com		
EMERGENCY PHONE NUM	IBER:	1-800-535-5053 - US Only 1-352-323-3500 - International	
RECOMMENDED USE:	Research Only		
RESTRICTIONS ON USE:	Products sold by PhytoTechnology Laboratories are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.		

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H350 - Carcinogenicity (Category 1B)

GHS Label Element:



Hazard Statements:

H350 - May cause cancer

Precautionary Statements:

P201 – Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:	Direct Blue 53
CAS No.:	314-13-6
Formula:	C34H24N6Na4O14S4
Molecular Weight:	960.81 g/mol
EC No.:	206-242-5

Ingredient	CAS Number	Percent	Hazardous
Evans blue	314-13-6	90-100%	No exposure limits established by OSHA or ACGIH

Signal Word:

Danger

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.
Most Important Symptoms or Effects, Both Acute and Delayed:		

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing media suitable for surrounding fire.
Special Protective Equipment and Precaution for Firefighters:	In the event of a fire, wear full protective clothing and NIOSH approved self- contained breathing apparatus. Evacuate the area and fight fire from a safe distance.
Hazardous Combustion Products:	May emit toxic fumes under fire conditions.
Toxic Gases Produced:	Carbon oxides, nitrogen oxides, sulphur oxides, and sodium oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear respiratory protection. Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Method of Containment and Cleanup:	Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let product enter drains.
7. HANDLING AND STORAGE	
Precaution for Safe Handling:	Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Provide adequate exhaust ventilation at places where dust is formed. Wash thoroughly after use.
Conditions for Safe Storage:	Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.
Incompatibilities:	Strong oxidizing agent
Recommended Storage Temperature:	Room Temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):	No data available
Threshold Limit Values (TLVs):	No data available

Personal Protective Equipment (PPE):

Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection:	Protective gloves
Body Protection:	Lab coat
Respiratory Protection:	A NIOSH/MSHA approved air purifying respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue/Green to Black Powder			
pH:	No data available			
Solubility:	Water	Water		
Melting Point:	No data a	vailable		
Freezing Point:	No data a	vailable		
Vapor Density:	No data a	vailable		
Vapor Pressure:	No data a	vailable		
Specific Gravity:	No data a	vailable		
Odor:	No data a	vailable		
Odor Threshold:	No data a	vailable		
Viscosity:	No data a	vailable		
Relative Density:	No data a	vailable		
Evaporation Rate:		No data available		
Initial Boiling Point Boiling Range:	and	No data available		
Flammability (solid,	gas):	No data available		
Partition coefficient: n-octanol/water:		No data available		
Auto-ignition Temp	erature:	No data available		
Decomposition Temperature:		No data available		
Flash Point (Closed Cup):		No data available		
Flammable Limits:		Upper (%) – No data available Lower (%) – No data available		
10. STABILITY A	ND REAC	CTIVITY		
Reactivity:		No data available		
Chemical Stability:		Stable under normal conditions of use		

Chemical Stability:	Stable under normal conditions of use
Possibility of Hazard Reactions:	Will not occur
Conditions to Avoid:	Moisture
Incompatibles Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (Oral-Rat)(mg/Kg):	No data available	
	LD ₅₀ (Intraperitoneal-Mouse)(mg/Kg):	340	
	LD ₅₀ (Dermal-Rabbit)(mg/Kg):	No data available	

Carcinogenicity: Possible human carcinogen

	NTP:	No	
	IARC:	6,6'-((3,	p 3: Not classifiable as to its carcinogenicity to humans (Tetrasodium 3'-dimethyl-(1,1'-biphenyl-4,4'diyl)bis(azo)bis(4-amino-5-hydroxy-1,3-lenedisulphonate))
	Z List:	No	
	OSHA Reg:	No	
Reproductive Toxicity:	May cause repr	oductive o	lisorder(s) if overexposed.
Symptoms Associated with Overexposure:	Irritation, sneezing, gastrointestinal upset		
Specific Target Organ Toxicity:	Single Exposure	e:	No data available
5	Repeated Expos	sure:	No data available
Target Organs:	Liver		
Medical Conditions Aggravated By Exposure:	None identified	l	
Routes of Entry:	Inhalation, Inge	estion	
NOISH/RTECS NO:	Not listed		

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity:		No data available					
Persistence and Degradability:		No data available					
Bioaccumulative Potential:		No data available					
Mobility in Soil:		No data available					
5		No data ava	ilable				
13. DISPOSAL CONSIDERATIO Disposal Procedure:		DN Dispose in accordance with all applicable federal, state, and local environmental regulations.					
EPA Hazardous Waste Number:		No data available					
14. TRANSPORT INFORMATION							
Domestic (D.O.T.): Proper Shipp Hazard Class		ping Name:	CHEMICALS, N.O.S. (NON-REGULATED)				
		38:	N/A				
	UN/NA: Labels:		N/A				
			N/A				
International:							
IMDG: Proper Ship		ping Name:	CHEMICALS, N.O.S. (NON-REGULATED)				
	Hazard Class:		N/A				
	UN/NA:		N/A				
	Labels:		N/A				
IATA:	Proper Shipping Name:		CHEMICALS, N.O.S. (NON-REGULATED)				
	Hazard Class:		N/A				
	UN/NA:		N/A				
	Labels:		N/A				

15. REGULATORY INFORMATION

TSCA:	Yes	
SARA TITLE III:		
Section 302 (EHS) Ingredients:	No	
Section 313 Ingredients:	No	
Section 304 (EHS/CERCLA) Ingredients:	No	
Section 311/312 Hazard:	Acute Health Hazard, Chronic Health Hazard	
Massachusetts Right to Know Components:	No components are subject to the Massachusetts Right to Know Act.	
Pennsylvania Right to Know Components:	CAS No.: 314-13-6 Tetrasodium 6,6'-((3,3'-dimethyl-(1,1'-biphenyl-4,4'diyl)bis(azo)bis(4-amino- 5-hydroxy-1,3-naphthalenedisulphonate)	
New Jersey Right to Know Components:	CAS No.: 314-13-6 Tetrasodium 6,6'-((3,3'-dimethyl-(1,1'-biphenyl-4,4'diyl)bis(azo)bis(4-amino 5-hydroxy-1,3-naphthalenedisulphonate)	
California Prop. 65 Components:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	0	*	0	0
NFPA Rating:	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	0	0	0	

*Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

16. OTHER INFORMATION

*Phyto*Technology Laboratories[®] provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. *Phyto*Technology Laboratories[®] shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Revision Date: 17 Jun 15