

Material Safe Data Sheet

Date Created 01/30/2011
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Version 1.1

Section 1- Product Information

Product Name eStain[®] 2.0 Protein Staining Pads
Product Cat. No. L02012

Section 2- Composition / Information on Ingredients

Substance / Preparation:	Preparation		
Ingredient Name	CAS No.	Formula	Weight%
Coomassie brilliant blue G-250	6104-58-1	C ₄₇ H ₄₈ N ₃ NaO ₇ S ₂ ulture pure	0.01
Acetic acid	64-19-7	C ₂ H ₄ O ₂ ulture pure	5
Phosphoric acid	7664-38-2	H ₃ PO ₄ ulture pure	10

Section 3- Hazards Identification

Coomassie brilliant blue G-250

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.

Label

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards - none

Acetic acid

In accordance with local and national regulations,

In accordance with local and national regulations, Complies **Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Flammable liquids (Category 3)

Skin corrosion (Category 1A)

Complies **EU Directives 67/548/EEC or 1999/45/EC**

Flammable. Causes severe burns.

GHS – Classification

Signal word **Danger**

Labelling according Regulation (EC) No 1272/2008 [CLP]



Hazard statement(s)

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard Statements none

According to European Directive 67/548/EEC as amended.



EU Specific Hazard Statements

R-phrase(s)

R10 Flammable.
R35 Causes severe burns.

S-phrase(s)

S23 Do not breathe gas/fumes/vapour/spray.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Phosphoric acid

In accordance with local and national regulations,

In accordance with local and national regulations, Complies **Regulation (EC) No 1272/2008 [EU-GHS/CLP]**
Skin corrosion (Category 1B)
Complies **EU Directives 67/548/EEC or 1999/45/EC**
Causes burns.

GHS – Classification

Signal word **Danger**
Labelling according **Regulation (EC) No 1272/2008 [CLP]**



Hazard statement(s)

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard Statements none
According to European Directive 67/548/EEC as amended.



EU Specific Hazard Statements

R-phrase(s)

R34 Causes burns.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 4- First Aid Measures

Oral Exposure	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation Exposure	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Dermal Exposure	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye Exposure	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Section 5- Fire Fighting Measures

Flash Point	Not available
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Autoignition Temp	Not available
Flammability	Not available
Extinguishing Media Suitable	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Fire Fighting	
Protective Equipment	Be sure to use an approved/certified respirator or equivalent to prevent contact with skin and eyes.
Specific Hazard(s)	Not available

Section 6- Accidental Release Measures

Procedure to Be Followed in Case of Leak or Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Procedure(s) of Personal Precaution(s)	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.
Methods for Cleaning Up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7- Handling and Storage

Handling	
User Exposure	Avoid Inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage	
Recommended Use	Store eStain [®] 2.0 Protein Staining Pads (G-250, 20-pack) at room temperature, do not freeze. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Section 8- Exposure Controls/Personal Protection Equipment

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protective Equipment	
Respiratory	Not available
Other	Eyes: Safety glasses. Protective Clothing (Pictograms):
General Hygiene Measures	Wash thoroughly after handling

Section 9- Physical and Chemical Properties

Appearance	eStain [®] Protein Staining Pads
Physical State	Solid and liquid state
Color	White and Blue
Odour	No information available
Boiling Point/Range	°C No data available °F No data available
Melting point/range	°C No data available °F No data available
Flash point	°C No data available °F No data available
Autoignition temperature	°C No data available °F No data available
oxidising properties	°C No data available °F No data available
Freezing Point	0°C
Molecular Weight	Not available
pH	2 to 5
Vapor Pressure	Not available
Vapor Density	Not available
Saturated Vapor Conc.	Not available
SG/Density	Not available
Bulk Density	Not available
Volatile%	Not available
VOC Content	Not available
Water Content	20 to 50%
Solvent Content	Coomassie brilliant blue G-250
Evaporation Rate	Not available
Viscosity	Not available

Surface Tension	Not available
Partition Coefficient	Not available
Decomposition Temp.	Not available
Explosion Limits	Not available
Flammability	Not available
Refractive Index	Not available
Optical Rotation	Not available
Miscellaneous Data	Not available
Solubility	Not available

Section 10- Stability and Reactivity

Stability	
Stable	Stable
Hazardous Decomposition Products	
Hazardous Decomposition Products	Not available
Hazardous Polymerization	
Hazardous Polymerization	Will not occur

Section 11- Toxicological Information

Route of Exposure	
Skin Contact	May cause skin irritation
Skin Absorption	May be harmful if absorbed through the skin
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract, May be harmful if inhaled.
Ingestion	May be harmful if swallowed
Conditions Aggravated by Exposure	The toxicological properties have not been thoroughly investigated.

Section 12- Ecological Information

Eco-toxicity	Not available
Toxicity of The Products of Biodegradation	Not available

Section 13- Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
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Section 14- Transport Information

DOT	
Proper Shipping Name	Not available
Non-Hazardous for Transport	This substance is considered to be non-hazardous for transport.
IATA	
Non-Hazardous for Air Transport	Non-hazardous for air transport

Section 15- Regulatory Information

US Classification and Label Text	
US Statements	Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.
United States Regulatory information	
SARA Listed	Not available
Canada Regulatory Information	
WHMIS Classification	This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL	Not available
NDSL	Not available

Section 16- Other Information

Disclaimer	For <i>in vitro</i> research use only.
GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.	