

CooBlue Protein Gel Stain

MATERIAL SAFETY AND DATA SHEET

Section 1	Chemical Product and Company Identification	
Name	CooBlue Protein Gel Stain	Cat.#UP47255A, UP47255B
Synonyms (CAS, chemical names, tradename, abbreviates...)	Protein stain for electrophoresis gels based on coomassie dye	
Company identification	UPTIMA-INTERCHIM	213 J.F.Kennedy, 03100 Montluçon (FRANCE) Tel. :+33 (0)3 70 03 88 55 Fax: +33 (0) 3 70 03 82 60 e-mail: uptima@interchim.com
In case of Emergency	In Europe: Call UPTIMA-INTERCHIM out of office: Centre anti Poisons de Lyon In US: call CHEMTREC	Tel.: +33 (0)3 70 03 88 55 Tel.: 04 72 11 69 11 Tel.: 800;424;9300

Section 2	Composition, Information on Ingredients		
	To our knowledge, this product does not contain sufficient quantities that would require regulated labeling and transport of hazardous material.		
Ingredients	Identification, CAS, Name... information / hazards of pure material	classification	Information (% weight, state...)
Commassie	Brillant Blue G CAS:[6104-58-1] Mau be Irritant	None	<0.1% solution
Methanol	Ethyl alcohol, CAS:[64-17-5], C ₂ H ₆ O >24% (F, T) Flammable, Toxic R:11-23/24/25-39 S:2-7-16-46	risk class: 3 UN/PG: 1230/III	<1% solution
Trichloroacetic acid	CAS:[76-03-9], CCl ₃ COOH (C) Corrosive, Dangerous for environment R:35-50/53 S:16-36/37-45-74	risk class:3 UN/PG: 1839/II	<0.5% solution

Section 3	Hazards Identification
Label precautionary statement	To our knowledge, this product does not contain sufficient quantities of dangerous materials that would require hazardous classification. It should however be considered harmful if swallowed or in case of prolonged contact, that can causes eye and skin burns. See section 4 for label precautionary statement. It also contains small quantity of a flammable compound that can emit dangerous vapors in large pills. See sections 5 and 6.
Potential health effects (Eye, Skin, Ingestion, Inhalation, Chronic)	Primary routes of entry: Skin or eye contact from splashes. Inhalation of the vapor at room temperature is unlikely. Ingestion: Harmful if swallowed. Contains Trichloroacetic acid: Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Brilliant Blue G: avoid inhalation. Eye contact: Irritating. Contains Trichloroacetic acid: Causes severe eye burns. Brilliant Blue G: avoid contact. Skin contact: May cause irritation. Contains Trichloroacetic acid: Causes skin burns. Brilliant Blue G: avoid contact. Evidence for reproductive toxicity, carcinogenicity and mutagenicity: Not available. Contains Trichloroacetic acid: Carcinogen group 3 by IARC, Unclassifiable as to carcinogenicity to humans). Medical condition aggravated by over-exposure: There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition. Over exposure signs/symptoms: Not available.
Precautionary guidelines	Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Section 4 First aid Measures	
General measures	Remove contaminated clothing promptly. Allow the victim to rest in a well ventilated area, Seek medical attention
Emergency first measures (Eyes, Skin, Ingestion, Inhalation...)	In case of skin contact, wash thoroughly with cold water and soap and rinse thoroughly. Remove contaminated clothing and shoes/ Get medical attention if irritation occurs. In case of eye contact, flush opened eyes (separating the eyelids with fingers) with copious amounts of water for several minutes. Get medical aid immediatly (TCA). If swallowed, do NOT induce vomiting: if conscious and alert, rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
Notes to physicians	Treat symptomatically.

Section 5 Fire fighting & explosion Measures	
General information	Not flammable or explosive in normal conditions of use, but contains a flammable ingredient in small quantity.
Physical Information (Flammability, auto-ignition, flash point...)	Emitted vapor can be flammable.
Fire Fighting Measures	Gives off irritating or toxic fumes. Extinguishing media: Water spray, carbon dioxide, extinguishing powder or foam. For small fire: use dry chemicals, CO ₂ , alcohol foam or water spray. Large fire: use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build up, auto ignition or explosion. Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 Accidental Release Measures	
General information	Wear proper personal protective equipment to avoid skin and eye exposure (see section 8), and wear self-contained breathing apparatus, rubber boots, chemical resistant gloves Environmental precautions: Do not allow entering sewers, surfaces or ground water. Ventilate area and wash spill site after material pickup is complete Measures for cleaning / collecting: Collect spilled liquid with liquid-binding material or inert absorbent and place it in container for disposal. Wash spill site after material pickup is complete.
Spills and Leaks	Small spill and leak: dilute with water and mop up, or absorb with an inert dry material (as possible non-combustible like earth, sand) and place in appropriate waste disposable container. Large spill and leak: flammable liquid. Corrosive liquid. Keep away from heat Keep away from sources of ignition. Absorb with earth, sand or other non-combustible material.
Other	

Section 7 Handling and Storage	
Handling	No special measures necessary. Good laboratory technique should be used when handling. Avoid contact. Do not ingest. Avoid breathing vapors or spray mists. Keep container closed. Use adequate ventilation. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from heat. Keep away from sources of ignition. Store at 4°C.

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Section 8 Exposure Controls, Personal Protection	
Personal protection (eyes, hands, body, respiratory...)	For normal use, wear protective clothing (laboratory suit). It is recommended to wear also safety goggles (glasses) and chemical-resistant (rubber) gloves to prevent eyes and skin contact. Hygiene measures: Keep away from foodstuffs and beverages. Avoid contact with the eyes and skin. Do not eat, drink or smoke while working with products. In case of large spill, additional protective wears may be needed (boots, splash goggles and safety glasses...). See section 6.
Engineering controls	It is recommended to have eyewash stations and safety showers close to the workstations. Avoid breathing vapors, and provide exhaust ventilation for prolonged work periods. Breathing equipment is required in large spill.
Exposure limits	Consult local authorities. The product usually does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace (Europe).

Section 9 Physical and Chemical Properties	
Physical state / Appearance	Liquid
Odor	No remarkable odor Contains Trichloroacetic acid: Acid-like odor; Contains Ethanol: aromatic odor
Other (pH, Melting/Freezing Point, Vapor Pressure, Vapor Density, Volatility, Boiling Point, Viscosity, Flash point, Auto-ignition temperature, Explosion limits (low.Upp.), Specific Gravity / Density,...)	Not available. All reagents are aqueous solutions. Contains small quantity of Ethanol: Flash point: 16.6 deg C (61.88 deg F) Autoignition Temperature: 363 deg C (685.40 deg F) Explosion Limits, Lower:3.3 vol % ; Upper: 24.0 vol % NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 0
Comments	

Section 10 Stability and Reactivity	
Chemical Stability Chemical Reactivity (conditions, by-products...)	This product is stable under normal storage (closed) and handling conditions (at room temperature and pressure)
Incompatibilities (conditions, materials...)	Avoid contact with strong oxidants, fire.
Decomposition polymerisation	No data available
Comments	

Section 11 Toxicological Information	
Toxicity in animals	Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.
in human	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Carcinogenicity	Not available
Remarks (RTECS...)	*contains small quantity of Trichloroacetic acid: Irritating to eyes. Causes severe eye burns Irritating to skin: Causes skin burns. Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Carcinogen group 3 by IARC. (Unclassifiable as to carcinogenicity to humans). Preparations may cause allergic reactions in certain sensitive individuals. *contains small quantity of Brilliant Blue G: Acute effects may cause skin irritation. May cause eye irritation. Material may be irritating to mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.

Section 12 Ecological Information	
Ecotoxicity (BOD5, COD...) Biodegradation Mobility	Not available
Remarks	Contains small quantity of Trichloroacetic acid that is dangerous for environment.

For any question,
contact your local distributor

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Section 13 Disposal Considerations	
Waste	Observe all state and local environmental regulations. Burn the material in a chemical incinerator equipped with an afterburner and scrubber.
Remarks	Consult your local or regional authority or a licensed professional waste service

Section 14 Transport Information	
Classification 'Europe) (Other classifications)	To our knowledge, this product does not contain sufficient quantities of dangerous material that would require transport regulation.
Shipping name	N/A
Hazards Class	N/A
UN Class	N/A
Packing Group	N/A
Comments (marine pollutants...)	Room temperature

Section 15 Regulatory Information	
Classification Europe	* European labeling in accordance with EC directives CAUTION: product not fully tested Hazard symbols: N/A Risk phrases: R36: Irritating to eyes R38: Irritating to skin R22: Harmful if swallowed Safety phrases: S36/37/39: Wear suitable protective clothing, gloves and eye/face protection
Other classifications	

Section 16 Additional Information	
MSDS validation	UPTIMA-INTERCHIM, I06E
Comment	<i>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages</i>