Safety data sheet

ChemiPURE Coomassie Brilliant Blue, G-250

Product name ChemiPURE Coomassie Brilliant Blue, G-250	Catalog no. CBB05, CBB10, CBB25
Synonyms Brilliant Blue G-250; Acid Blue 90; C.I. 42655	SDS revision -
CAS no. 6104-58-1	Format version / date 3 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ChemiPURE Coomassie Brilliant Blue, G-250
Product code	CBB05 (5 g); CBB10 (10 g); CBB25 (25 g)
CAS number	6104-58-1
EC number	228-058-4
Recommended use	For research use only. Protein staining after electrophoresis and colorimetric protein determination (Bradford assay).
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10, Yakutiye, Erzurum, Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	Not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP).
Label elements	No hazardous labelling required.
Symbols / pictograms	None
Signal word	None
Hazard statements	None
Precautionary statements - Prevention	Avoid dust formation and breathing dust. Wear appropriate gloves and safety glasses. Wash hands after handling.
Precautionary statements - Response	Rinse affected eyes or skin with water. Seek medical advice if symptoms persist.
Other hazards	Dust may cause mechanical irritation. Fine organic powder dispersed in air may present a combustible dust hazard.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ChemiPURE Coomassie Brilliant Blue, G-250
Synonyms	Coomassie Brilliant Blue G-250; Brilliant Blue G; Acid Blue 90; C.I. 42655
Concentration	Purity / assay: No data available.
Formula	C47H48N3NaO7S2
Molecular weight	854.02 g/mol
Mixture statement	Substance: Coomassie Brilliant Blue G-250, CAS 6104-58-1, EC 228-058-4. No hazardous ingredients requiring disclosure identified; impurities and their concentrations: No data available.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse carefully with plenty of water for several minutes. Remove contact lenses if easy to do. Seek medical advice if irritation continues.
Skin contact	Wash affected skin with soap and water. Remove contaminated clothing; seek medical advice if irritation persists.
Inhalation	Move person to fresh air. Seek medical attention if respiratory irritation or discomfort persists.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice if unwell.
Self-protection of first aider	Avoid contact with dust; use appropriate gloves and eye protection.
Most important symptoms / effects	No specific symptoms established. Dust may cause eye, skin or respiratory irritation.
Notes to physicians	Treat symptomatically.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, foam, dry chemical powder or carbon dioxide suitable for the surrounding fire.
Unsuitable extinguishing media	No specific extinguishing media restrictions identified. Avoid creating dust clouds.
Special hazards arising from the substance or mixture	Combustible organic solid. Fire may produce carbon oxides, nitrogen oxides, sulfur oxides and potentially sodium oxides.
Explosion data	Finely dispersed powder may form combustible dust clouds. No product-specific explosive limit data available.
Advice for firefighters	Wear protective clothing and self-contained breathing apparatus. Prevent contaminated firefighting water entering drains.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid dust formation and inhalation. Ensure adequate ventilation; wear suitable protective gloves, eye protection and laboratory clothing.
Environmental precautions	Prevent release to drains, surface water and soil.
Methods and materials for containment and cleaning up	Collect mechanically or sweep up carefully without dispersing dust. Place in a dry, suitable, tightly closed container for disposal.
Reference to other sections	See Sections 8 and 13 for protective equipment and disposal.

07 HANDLING AND STORAGE

Precautions for safe handling	Use good laboratory hygiene and sufficient ventilation. Avoid forming dust clouds or contact with eyes and skin. Wash hands after handling.
Conditions for safe storage	Store at 15-25 °C in a dry, tightly closed container. Protect from moisture and strong oxidizing agents.
Container labeling	Keep in original or correctly labelled, tightly closed containers.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No substance-specific occupational exposure limit values available. General local occupational limits for inhalable/respirable dust may apply.

8.2 Exposure controls

Engineering measures	Use adequate general ventilation and local exhaust where dust may be generated. Provide access to an eyewash station.
Hygiene measures	Do not eat, drink or smoke when handling. Wash hands and exposed skin after use.
Eye / face protection	Wear safety glasses or goggles meeting EN 166 or equivalent standards.
Hand protection	Wear appropriate chemical-resistant gloves; inspect gloves before use.
Skin and body protection	Wear laboratory coat and suitable protective clothing.
Respiratory protection	Normally not required if airborne dust is controlled. When dust is generated, use an appropriate particulate respirator (e.g., P1).

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Dark blue to brown powder (solid)
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	Not applicable to a solid
Flammability (solid, gas)	Not classified as flammable; combustible solid dust may present a fire hazard
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	No product-specific quantitative solubility data available
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable to a solid
Explosive properties	No data available; dispersed fine powder may present a dust explosion hazard
Oxidizing properties	Not classified as oxidizing

10 STABILITY AND REACTIVITY

Reactivity	Fine organic powder, when dispersed, may pose a dust explosion hazard. No further data available.
Chemical stability	Stable under recommended room-temperature storage conditions.
Possibility of hazardous reactions	No data available.
Conditions to avoid	Dust formation, unnecessary heat and incompatible chemicals.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	In fire, may generate carbon oxides, nitrogen oxides, sulfur oxides and sodium oxides.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No data available; not classified for acute toxicity based on available information.
Skin corrosion / irritation	No data available; dust contact may cause mechanical irritation.
Serious eye damage / eye irritation	No data available; powder may cause mechanical eye irritation.
Carcinogenicity	No data available; not classified as carcinogenic based on available information.
Reproductive toxicity	No data available.
STOT - SE	No data available.
STOT - RE	No data available.
Aspiration hazard	Not applicable to a solid.

11.2 Potential health effects

Ingestion: No substance-specific information available; ingestion may cause discomfort.
Inhalation: Avoid breathing dust; dust may irritate the respiratory tract.
Skin: Dust contact may cause mechanical irritation.
Eyes: Direct powder contact may cause mechanical irritation.

11.3 Additional information

No additional toxicological data available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No data available. Avoid uncontrolled discharge into water.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No data available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose of unused substance and contaminated materials as laboratory chemical waste in accordance with applicable local and national requirements. Avoid release to drains.
Contaminated packaging	Dispose of as unused product unless fully cleaned and authorized for recycling.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
ADR/RID	-	Not regulated	-	-	No
IMDG	-	Not regulated	-	-	No
IATA	-	Not regulated	-	-	No

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (CLP). Not classified as hazardous under CLP based on available information.
Environmental hazards	Not classified as environmentally hazardous based on available data.
Chemical safety assessment	No product-specific chemical safety assessment available.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail