

SAFETY DATA SHEET

Creation Date 25-Sep-2009

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name

Brilliant Blue R

Cat No. :	BP101-25; BP101-50				
CAS No	6104-59-2				
Synonyms	Coomassieº4 Brilliant Blue R-250; Acid Blue 83; C.I. 42660				
Recommended Use	Laboratory chemicals.				
Uses advised against	Food, drug, pesticide or biocidal product use.				

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Yes

Label Elements

Signal Word Warning

Hazard Statements May form combustible dust concentrations in air

Precautionary Statements

Storage Store in a well-ventilated place. Keep container tightly closed

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients							
Component CAS No Weight %							
Brilliant blue R (Acid blue	83)	6104-59-2	100				
4. First-aid measures							
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.						
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.						
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.						
Ingestion	Do NOT induce vomiting. Get medical attention.						
Most important symptoms and	No information available.						
effects Notes to Physician	Treat symptomatically						
	5. Fi	re-fighting measures					

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Fine dust dispersed in air may ignite.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Sulfur oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 1								
6. Accidental release measures								
Personal Precautions	utions Use personal protective equipment as required. Ensure adequate ventilation.							

Environmental Precautions	Should not be released into the environment.
Methods for Containment and Clear Up	n Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.
	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Wash hands before breaks and immediately after handling the product. Minimize dust generation and accumulation.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.
8. E>	xposure controls / personal protection
<u>Exposure Guidelines</u>	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
9	. Physical and chemical properties

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7.11193100	and chemical properties
Physical State	Powder Solid
Appearance	Red brown
Odor	Odorless
Odor Threshold	No information available
рН	6.2
Melting Point/Range	174 - 180 °C / 345.2 - 356 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	0.25
Solubility	slightly soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C45 H44 N3 Na O7 S2
Molecular Weight	825.96

		10. Stab	ility and rea	activity				
Reactive Hazard		No						
Stability		Stable under normal conditions.						
Conditions to Avoid	d	Incompatible products.						
Incompatible Mater	ials	Strong oxidizing agents						
Hazardous Decomp	ous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides							
Hazardous Polymer	rization	Hazardous polymerization does not occur.						
Hazardous Reaction	ns	None under norma	al processing.					
		11. Toxico	ological info	ormation				
Acute Toxicity								
Product Information No acute toxicity information is available for this product Component Information No information available Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure								
Irritation May cause skin, eye, and respiratory tract irritation								
Sensitization No information available								
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Brilliant blue R (Acid blue 83)	6104-59-2	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable					
Reproductive Effec	ts	No information available.						
Developmental Effe	ects	No information available.						
Teratogenicity	genicity No information available.							
	TOT - single exposure None known TOT - repeated exposure None known							
Aspiration hazard		No information ava	ailable					
Symptoms / effects delayed	s,both acute and	No information ava	ailable					
		No information or	labla					

Endocrine Disruptor Information No information available

The toxicological properties have not been fully investigated. **Other Adverse Effects**

12. Ecological information

Ecotoxicity Do not empty into drains.

Persistence and Degradability

May persist based on information available.

Bioaccumulation/Accumulation	No information available.				
Mobility	Is not likely mobile in the environment due its low water solubility.				
	13. Disposal considerations				
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				
	14. Transport information				
DOT	Not regulated				

DOT	Not regulated	
TDG	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Brilliant blue R (Acid blue 83)	6104-59-2	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

Not applicable TSCA 12(b) - Notices of Export

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Brilliant blue R (Acid blue 83)	6104-59-2	Х	-	228-060-5	Х	Х	Х	Х	Х	KE-06366

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable		
SARA 311/312 Hazard Categories	See section 2 for more information		
CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
OSHA - Occupational Safety and Health Administration	Not applicable		
CERCLA	Not applicable		
California Proposition 65	This product does not contain any Proposition 65 chemicals.		
U.S. State Right-to-Know	Not applicable		

Regulations

U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Brilliant blue R (Acid blue 83)	6104-59-2	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Brilliant blue R (Acid blue 83)	6104-59-2	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	25-Sep-2009 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS