

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 |

| 9. Physical and chemical properties | 9. | Physical | and | chemical | properties |
|-------------------------------------|----|----------|-----|----------|------------|
|-------------------------------------|----|----------|-----|----------|------------|

| 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