

SAFETY DATA SHEET

Revision Date 23-May-2017

Revision Number 2

| | 1. Identification |
|---|--|
| Product Name | Bismuth subgallate |
| Cat No. : | B338-500 |
| Synonyms | Basic Bismuth Gallate; Gallic Acid Bismuth Basic Salt |
| Recommended Use Uses advised against | Laboratory chemicals. Not for food, drug, pesticide or biocidal product use |

Details of the supplier of the safety data sheet

Company

Fisher Scientific 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

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

| Component | CAS-No | Weight % | | | |
|--|---------|----------|--|--|--|
| 1,3,2-Benzodioxabismole-5-carboxylic acid, | 99-26-3 | > 90 | | | |
| 2,7-dihydroxy- | | | | | |
| | | | | | |
| 4. First-aid measures | | | | | |

Eye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.Skin ContactWash off immediately with plenty of water for at least 15 minutes.

| Inhalation | Move to fresh air. |
|---|--|
| Ingestion | Do not induce vomiting. |
| Most important symptoms/effects Notes to Physician | No information available. Treat symptomatically |

| | 5. Fire-fighting measures |
|--|----------------------------|
| Unsuitable Extinguishing Media | No information available |
| Flash Point | |
| Method - | No information available |
| Autoignition Temperature | No information available |
| Explosion Limits | |
| 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 C Keep product and empty container aw | |
| Hazardous Combustion Products | |
| Heavy metal oxides | |
| Protoctive Equipment and Processi | ana far Eirafightara |

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 | Flammability 0 | Instability 0 | Physical hazards N/A |
|---|---------------------------------------|--|----------------------------|
| | 6. Accidental re | elease measures | |
| Personal Precautions Environmental Precautions | | on. Use personal protective equinal ecological information. | lipment. |
| Methods for Containment and C Up | lean No information available. | | |
| | 7. Handling | and storage | |
| Handling | Ensure adequate ventilati | on. | |
| Storage | Keep containers tightly clo | osed in a dry, cool and well-ven | tilated place. |
| 8. | Exposure controls | / personal protecti | on |
| Exposure Guidelines | | ntain any hazardous materials w egion specific regulatory bodies. | |
| Engineering Measures | · | on, especially in confined areas | |
| Personal Protective Equipment | | | |
| Eye/face Protection | Wear appropriate protecti | ve eyeglasses or chemical safe | ty 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 | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. |

9. Physical and chemical properties

| 7. FHYSICC | a and chemical properties |
|--|---------------------------|
| Physical State | Powder Solid |
| Appearance | Yellow |
| Odor | Odorless |
| Odor Threshold | No information available |
| рН | |
| Melting Point/Range | No data available |
| Boiling Point/Range | |
| Flash Point | |
| Evaporation Rate | No information available |
| 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 | No information available |
| Specific Gravity | 1.10 |
| Solubility | No information available |
| Partition coefficient; n-octanol/water | No data available |
| Autoignition Temperature | No information available |
| Decomposition Temperature | No information available |
| Viscosity | No information available |
| Molecular Formula | C7H7O7Bi |
| Molecular Weight | 412.12 |
| | |

10. Stability and reactivity

| Reactive Hazard | None known, based on information available |
|---------------------------------|--|
| Stability | Stable under normal conditions. |
| Conditions to Avoid | Incompatible products. |
| Incompatible Materials | Strong oxidizing agents |
| Hazardous Decomposition Product | s Heavy metal oxides |
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions | None under normal processing. |
| | |

11. Toxicological information

Acute Toxicity

Oral LD50 Dermal LD50 Mist LC50 Component Information Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

| 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 Not regulated | Toxicologically Syn Products Delayed and immed | - | No information ava | | nd long-term expo | osure_ | | | | |
|--|---|--------------------|--------------------------|--------------------|-----------------------|--------------------|------------------|--|--|--|
| Carcinogenity The table below indicates whether each agency has listed any ingredient as a carcinogen. Component CAS-No IARC NTP ACGIH OSHA Mexico 13.2. Benzodiovabism 99-26-3 Not listed Not lormation available Not inf | Irritation | | No information available | | | | | | | |
| Component CAS-No IARC NTP ACGIH OSHA Mexico 1.3.2-Benzodioxabism 99-26-3 Not listed Not listed <th>Sensitization</th> <th></th> <th>No information ava</th> <th>ilable</th> <th></th> <th></th> <th></th> | Sensitization | | No information ava | ilable | | | | | | |
| 1.3.2-Benzodioxabism 99-26-3 Not listed Not li | Carcinogenicity | | The table below in | dicates whether e | ach agency has lis | ted any ingredient | as a carcinogen. | | | |
| oile 3-carboxylic acid, 2.7-dihydroxy. Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects,both acute and do information available No information available Chernical Variation available No information available Symptoms / effects,both acute and do information available No information available Chernical Information No information available Dother Adverse Effects The toxicological properties have not been fully investigated. Ecotoxicity Do information available Do not empty into drains. Persistence and Degradability Persistence and Degradability No information available. Mobility No information available. Moster Disposal Methods Chernical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chernical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. | Component | CAS-No | IARC | NTP | ACGIH | OSHA | Mexico | | | |
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| TDG Not regulated IATA Not regulated IMDG/IMO Not regulated | | | | sport infor | mation | | | | | |
| IATA Not regulated IMDG/IMO Not regulated | | | | | | | | | | |
| | ΙΑΤΑ | | Not regulated | | | | | | | |
| | IMDG/IMO | | | | | | | | | |

International Inventories

| Component | TSCA | DSL | NDSL | EINECS | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|--------------------------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| 1,3,2-Benzodioxabismole-5-c | Х | Х | - | 202-742-2 | - | | Х | Х | Х | - | - |
| arboxylic acid, 2,7-dihydroxy- | | | | | | | | | | | |

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used. P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

No No No No

U.S. Federal Regulations

| TSCA 12(b) | Not applicable |
|--------------------------------|----------------|
| SARA 313 | Not applicable |
| SARA 311/312 Hazard Categories | |

| Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressu Reactive Hazard | re Hazard | |
|--|----------------|--|
| CWA (Clean Water Act) | Not applicable | |

Clean Air Act

OSHA Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

Not applicable

| U.S. State Right-to-Know | Not applicable |
|--------------------------|----------------|
| Regulations | |

U.S. Department of Transportation

| Reportable Quantity (RQ): | Ν |
|-----------------------------|---|
| DOT Marine Pollutant | Ν |
| DOT Severe Marine Pollutant | Ν |

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

16. Other information

Prepared By

Regulatory Affairs

Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

Revision Date Print Date Revision Summary 23-May-2017 23-May-2017 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