



# Bismuth Sulfite Agar

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Issue date: 05-15-2025 Revision date: 09-03-2026 Supersedes: 05-15-2025 Version: 2.0

### SECTION 1 Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Trade name : Bismuth Sulfite Agar  
Type of product : Food Safety -- [Food Safety]  
Product code : NCM0086

#### 1.2. Other means of identification

Part Number(s) : NCM0086|400000794|700003206|NCM0086A|700003207|NCM0086B|700003208|NCM0086C

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Laboratory chemicals, Scientific research and development  
Recommended use : Laboratory chemicals, Scientific research and development

#### 1.4. Supplier's details

##### Manufacturer

Neogen Corporation  
620 Leshar Place  
Lansing, Michigan 48912  
United States of America  
T 800.234.5333  
[sds@neogen.com](mailto:sds@neogen.com) - <https://www.neogen.com/>

#### 1.5. Emergency phone number

Emergency number : 24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

### SECTION 2 Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS CA)

Not classified

#### 2.2. GHS label elements, including precautionary statements

##### GHS CA labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

### SECTION 3 Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name           | Chemical name /<br>Synonyms                                                                                                                                                                                                | Product identifier | %          | Classification (GHS CA) |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|-------------------------|
| Sodium sulfite | Sodium sulfite<br>E221 / sodium<br>sulfite / sodium<br>sulfite (2:1) /<br>sodium sulfite,<br>neutral / sodium<br>sulphite / sulftech<br>/ sulfurous acid,<br>disodium salt /<br>sulfurous acid,<br>sodium salt / S-<br>WAT | CAS-No.: 7757-83-7 | ≥ 5 – < 10 | STOT SE 3, H335         |

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First-aid measures

### 4.1. Description of necessary first-aid measures

|                                               |                                                                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| First-aid measures after inhalation           | : Remove person to fresh air and keep comfortable for breathing.                                                      |
| First-aid measures after skin contact         | : Wash skin with plenty of water.                                                                                     |
| First-aid measures after eye contact          | : Rinse eyes with water as a precaution.                                                                              |
| First-aid measures after ingestion            | : Call a poison center/doctor/physician if you feel unwell.                                                           |
| First-aid measures general                    | : If you feel unwell, seek medical advice.                                                                            |
| Personal protection for first-aid responders. | : First-aiders should consider self-protection and use the recommended personal protective equipment (see section 8). |

### 4.2. Most important symptoms/effects, acute and delayed

|                                     |                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.                 |
| Symptoms/effects after eye contact  | : None under normal conditions. Dust from this product may cause eye irritation.                                                          |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                           |

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

|                                   |                          |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

## SECTION 5 Fire-fighting measures

### 5.1. Suitable extinguishing media

|                                |                                    |
|--------------------------------|------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam.   |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

### 5.2. Specific hazards arising from the chemical

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

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### 5.3. Special protective actions for fire-fighters

- |                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- |                           |                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
| General measures          | : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage. |
| Environmental precautions | : Avoid release to the environment.                                                                         |

### 6.2. Methods and materials for containment and cleaning up

- |                         |                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------|
| For containment         | : Using a clean shovel, put the material in a dry container and cover without compressing it. |
| Methods for cleaning up | : Mechanically recover the product.                                                           |
| Other information       | : Dispose of materials or solid residues at an authorized site.                               |
- For further information refer to section 13.

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

- |                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment.                  |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

### 7.2. Conditions for safe storage, including any incompatibilities

- |                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.                                         |
| Storage temperature | : 2 – 30 °C                                                                 |
| Packaging materials | : Always store product in container of same material as original container. |

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

- |                                  |                                                |
|----------------------------------|------------------------------------------------|
| Appropriate engineering controls | : Ensure good ventilation of the work station. |
| Environmental exposure controls  | : Avoid release to the environment.            |

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Hand protection:

Protective gloves

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### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Solid             |
| Appearance                                      | : Powder.           |
| Color                                           | : Light green       |
| Odor                                            | : Characteristic    |
| Odor threshold                                  | : No data available |
| pH                                              | : 7.5 – 7.9         |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Relative evaporation rate (ether=1)             | : No data available |
| Melting point                                   | : No data available |
| Freezing point                                  | : Not applicable    |
| Boiling point                                   | : No data available |
| Flash point                                     | : Not applicable    |
| Auto-ignition temperature                       | : Not applicable    |
| Decomposition temperature                       | : No data available |
| Flammability (solid, gas)                       | : Non flammable     |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20°C                  | : No data available |
| Relative density                                | : No data available |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic                            | : Not applicable    |
| Explosion limits                                | : Not applicable    |
| Particle characteristics                        | : No data available |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

|                                    |                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------|
| Reactivity                         | : The product is non-reactive under normal conditions of use, storage and transport. |
| Chemical stability                 | : Stable under normal conditions.                                                    |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use.                       |
| Conditions to avoid                | : None under recommended storage and handling conditions (see section 7).            |

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|                                  |                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------|
| Incompatible materials           | : No additional information available                                                                  |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hardening time:                  | : No additional information available                                                                  |

### SECTION 11 Toxicological information

#### 11.1. Likely routes of exposure

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Bismuth Sulfite Agar            |                                                                                                                                                                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unknown acute toxicity (GHS CA) | 9.21% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)<br>52% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)<br>52% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) |

| Sodium sulfite (7757-83-7)        |                                                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                     | 2610 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))         |
| LD50 dermal rat                   | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat             | > 5.5 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))   |
| LC50 Inhalation - Rat (Dust/Mist) | > 5.5 mg/l Source: International Uniform Chemical Information Database                                                      |
| ATE CA (oral)                     | 2610 mg/kg body weight                                                                                                      |

|                           |                                    |
|---------------------------|------------------------------------|
| Skin corrosion/irritation | : Not classified.<br>pH: 7.5 – 7.9 |
|---------------------------|------------------------------------|

| Sodium sulfite (7757-83-7) |           |
|----------------------------|-----------|
| pH                         | 9.7 (5 %) |

|                               |                                   |
|-------------------------------|-----------------------------------|
| Serious eye damage/irritation | : Not classified<br>pH: 7.5 – 7.9 |
|-------------------------------|-----------------------------------|

| Sodium sulfite (7757-83-7) |           |
|----------------------------|-----------|
| pH                         | 9.7 (5 %) |

|                                   |                  |
|-----------------------------------|------------------|
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |

| Sodium sulfite (7757-83-7) |                      |
|----------------------------|----------------------|
| IARC group                 | 3 - Not classifiable |

|                       |                  |
|-----------------------|------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure  | : Not classified |

| Sodium sulfite (7757-83-7) |                                   |
|----------------------------|-----------------------------------|
| STOT-single exposure       | May cause respiratory irritation. |

|                        |                  |
|------------------------|------------------|
| STOT-repeated exposure | : Not classified |
| Aspiration hazard      | : Not classified |

| Bismuth Sulfite Agar |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |

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| Sodium sulfite (7757-83-7)          |                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Viscosity, kinematic                | Not applicable (solid)                                                                                                                    |
| Symptoms/effects after inhalation   | : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.                 |
| Symptoms/effects after eye contact  | : None under normal conditions. Dust from this product may cause eye irritation.                                                          |
| Symptoms/effects after ingestion    | : None under normal conditions.                                                                                                           |

## SECTION 12 Ecological information

### 12.1. Toxicity

|                                                           |                                                                                                                        |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified.                                                                                                      |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified.                                                                                                      |

| Sodium sulfite (7757-83-7) |                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]            | 316 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Read-across, Lethal)                               |
| LC50 - Fish [2]            | 316 mg/l Test organisms (species): Leuciscus idus                                                                            |
| EC50 - Crustacea [1]       | 89 mg/l (EU Method, 48 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)                          |
| EC50 72h - Algae [1]       | 43.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                         |
| EC50 96h - Algae [1]       | 43.8 mg/l (Equivalent or similar to OECD 201, Desmodesmus subspicatus, Static system, Fresh water, Read-across, Growth rate) |
| NOEC chronic fish          | ≥ 316 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'                         |
| NOEC (chronic)             | > 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                           |

### 12.2. Persistence and degradability

| Bismuth Sulfite Agar            |                                    |
|---------------------------------|------------------------------------|
| Persistence and degradability   | Not rapidly degradable             |
| Sodium sulfite (7757-83-7)      |                                    |
| Persistence and degradability   | Biodegradability: not applicable.  |
| Biochemical oxygen demand (BOD) | 0.12 g O <sub>2</sub> /g substance |

### 12.3. Bioaccumulative potential

| Sodium sulfite (7757-83-7)                      |                                  |
|-------------------------------------------------|----------------------------------|
| Bioaccumulative potential                       | Bioaccumulation: not applicable. |
| Partition coefficient n-octanol/water (Log Pow) | -4                               |

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

## SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.  
Ecological waste information : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

## SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

| TDG                                       | DOT           | IMDG          | IATA          |
|-------------------------------------------|---------------|---------------|---------------|
| <b>14.1. UN Number</b>                    |               |               |               |
| Not regulated for transport               |               |               |               |
| <b>14.2. UN Proper Shipping Name</b>      |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b>   |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group, if applicable</b> |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>        |               |               |               |
| Not regulated                             | Not regulated | Not regulated | Not regulated |
| No supplementary information available    |               |               |               |

### 14.6. Special precautions for user

**TDG**  
Not regulated

**DOT**  
Not regulated

**IMDG**  
Not regulated

**IATA**  
Not regulated

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### 14.7. Transport in bulk according to Annex II of MARPOL 73/78<sup>9</sup> and the IBC Code<sup>10</sup>

Not applicable

## SECTION 15 Regulatory information

### Sodium sulfite (7757-83-7)

#### Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

### Sodium sulfite (7757-83-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## SECTION 16 Other Information

Issue date : 05-15-2025

Revision date : 09-03-2026

Supersedes : 05-15-2025

### Full text of hazard classes and H-statements:

H335

May cause respiratory irritation

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.