

## SECTION 1 Identification of the substance/mixture and of the company

### 1.1 Product identifier

- Product Name: **Selenite Cystine Broth**
- Product Part Number: **7283**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For the selective enrichment of *Salmonella* spp.
- Use advised against: No information available

### 1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Acumedia Manufacturers, Inc.
- Address of Manufacturer: 740 East Shiawassee  
Lansing, Michigan 48912  
USA
- Telephone: 517/372-9200
- Email: [foodsafety@neogen.com](mailto:foodsafety@neogen.com)

### 1.4 Emergency telephone number

- Emergency Telephone: Chemtrec: 1 (800) 424-9300  
Outside USA and Canada: +1 (703) 527-3887

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## SECTION 2 Hazards identification

### 2.1 Classification of the substance or mixture

Classification (29 CFR 1910.1200)

- Acute toxicity, oral, Cat 3, H301, Acute toxicity, inhalation, Cat. 3, H331, Sensitization, skin, Cat. 1, H317, Hazardous to the aquatic environment, long-term hazard, Cat. 2, H411

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]

- Acute tox. 3, H301, Acute tox. 3, H331, Skin sens. 1, H317, Aquatic chronic 2, H411

Classification (WHMIS 2015 HPR)

- Acute toxicity, oral, Cat 3, H301, Acute toxicity, inhalation, Cat. 3, H331, Sensitization, skin Cat. 1, H317, Hazardous to the aquatic environment, long-term hazard, Cat. 2, H411

Additional information: For full text of Hazard-statements see Section 16.

### 2.2 Label elements



GHS06



GHS07

- Signal Word: **Danger**
- Symbols: GHS06, GHS07
- Hazard phrases
  - Toxic if swallowed
  - Toxic if inhaled.
  - May cause an allergic skin reaction
  - Toxic to aquatic life with long lasting effects.
- Precautionary Phrases
  - Wash hands thoroughly after handling.
  - Avoid breathing dust/fume/gas/mist/vapors/spray.
  - Do not eat, drink or smoke while using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - Contaminated work clothing must not be allowed out of the workplace.
  - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  - Rinse mouth.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
  - IF ON SKIN: Wash with plenty of soap and water.
  - IF SKIN irritation or rash occurs: Get medical advice/attention.
  - Take off contaminated clothing and wash it before reuse.

## SECTION 2 Hazards identification (continued)

Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Avoid release into environment.  
 Collect spillage. Hazardous to the aquatic environment.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

- May be mildly irritating to eyes and mucous membranes.

## SECTION 3 Composition/information on ingredients

### 3.1 Substances

### 3.2 Mixtures

- This product is a mixture of the substances listed below with the addition of non-hazardous materials

Chemical	Concentration	CAS No.	EC No.	H-Statements	Symbols
Sodium Selenite	20 – 25%	10102-18-8	233-267-9	H301, H317, H331, H411	GHS06, GHS07

## SECTION 4 First aid measures

### 4.1 Description of first aid measures

- General  
In case of doubt, or when symptoms persist, seek medical attention.
- Contact with skin  
May cause an allergic skin reaction.  
Remove contaminated clothing.  
Wash affected area with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Contaminated clothing should be laundered before reuse.
- Contact with eyes  
If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.  
Irrigate eyes thoroughly while lifting eyelids.  
Seek medical advice if necessary.
- Ingestion  
Toxic if swallowed.  
Rinse mouth with water (do not swallow).  
Never make an unconscious person vomit or drink fluids.  
Immediately call a POISON CENTER or doctor/physician.  
If medical advice is needed, have product container or label at hand.
- Inhalation  
Toxic if inhaled.  
Remove person to fresh air and keep comfortable for breathing.  
Immediately call a POISON CENTER or doctor/physician.  
If medical advice is needed, have product container or label at hand.

### 4.2 Most important symptoms and effects, both acute and delayed

- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

## SECTION 5 Fire-fighting measures

### 5.1 Extinguishing media

- In case of fire: use foam, carbon dioxide or dry agent for extinction.

### 5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- Decomposition products may include carbon oxides.
- May form combustible dust/air mixtures.
- See Section 10.

## SECTION 5 Fire-fighting measures (continued)

### 5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus.
- Wear protective clothing as per Section 8.

### 5.4 Hazardous Combustion Products

- May include carbon oxides.

## SECTION 6 Accidental release measures

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

- Shut off all ignition sources.
- Use non-sparking tools.
- Remove contaminated clothing.
- Wear protective clothing as per Section 8.
- Wash thoroughly after dealing with spillage.

### 6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses.
- Avoid scattering in the environment.

### 6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up.
- Place in sealable container.
- Seal containers and label them.
- Ventilate the area and wash spill site after material pick-up is complete.
- Dispose of contaminated materials and wastes in accordance with local/national/international hazardous waste regulations.

### 6.4 Reference to other sections

- See Section 7 for storage. For disposal, see Section 13.

## SECTION 7 Handling and storage

### 7.1 Precautions for safe handling

- Do not breathe dust.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke when using this product.
- Ensure adequate ventilation.
- Eyewash bottles should be available.
- Wash hands thoroughly after using this substance.

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

- Store at temperatures not exceeding 30°C/86°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a dry place.
- Keep away from oxidizing substances.

### 7.3 Specific end use(s)

- For the selective enrichment of *Salmonella* spp.

## SECTION 8 Exposure controls/personal protection

### 8.1 Control parameters

#### Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Basis
Sodium selenite	10102-18-8	TWA	0.2 mg/m <sup>3</sup>	USA-OSHA Table Z-1 Limits for Air Contaminants - 1910.1000
		TWA	0.2 mg/m <sup>3</sup>	USA-NIOSH Recommended Exposure Limits
		TWA	0.2 mg/m <sup>3</sup>	(TLV)
		WEL	0.1 mg/m <sup>3</sup>	UK EH40, long term

## SECTION 8 Exposure controls/personal protection (continued)

### 8.2 Exposure controls

- Eyewash bottles should be available.
- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved respiratory protection, NIOSH N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.



Gloves



Safety  
Glasses



Lab Coat

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## SECTION 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Homogenous, free-flowing powder, off-white to white
- Odor: No information available
- pH: No information available
- Melting Point/Range: No information available
- Boiling Point/Range: Not applicable
- Flashpoint: No information available
- Evaporation Rate: Not applicable
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Soluble
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: Product is free-flowing powder
- Explosive Properties: May form combustible dust/air mixtures
- Oxidizing Properties: Product is not classified as an oxidizer

### 9.2 Other information

- No information available

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## SECTION 10 Stability and reactivity

### 10.1 Reactivity

- No information available

### 10.2 Chemical stability

- Considered stable under normal conditions.

### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose.

### 10.4 Conditions to avoid

- Avoid contact with moisture.
- Keep away from heat and sources of ignition.

### 10.5 Incompatible materials

- None known

### 10.6 Hazardous Decomposition Products

- Decomposition products may include carbon oxides.
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## SECTION 11 Toxicological information

### 11.1 Information on toxicological effects

- No experimental test data available for the mixture
- ATEmix = 20 mg/kg (oral)
- Contact with skin  
May cause an allergic skin reaction.
- Contact with eyes  
May cause redness and irritation in sensitive individuals.
- Ingestion  
Toxic if swallowed.
- Inhalation  
Toxic if inhaled.
- Carcinogenicity  
Not listed in the National Toxicology Program (NTP) 13<sup>th</sup> Report on Carcinogens.  
Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.  
Not listed in OSHA standard 1910.1003 Carcinogens.
- Mutagenicity  
No evidence of mutagenic effects.
- Teratogenicity  
No evidence of teratogenic effects

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## SECTION 12 Ecological information

### 12.1 Toxicity

#### **Sodium selenite**

##### Toxicity to fish

LC<sub>50</sub> – Oncorhynchus mykiss (Rainbow trout) – 2.75 mg/L-96h

##### Toxicity to daphnia and other aquatic invertebrates

LC<sub>50</sub> – Daphnia Magna (Water flea) – 0.25 mg/L-48h

Mortality LOEC – Daphnia magna (Water flea) – 0.52 mg/L-21d

### 12.2 Persistence and degradability

- No information available

### 12.3 Bioaccumulation Potential

Bioaccumulation: Lepomis macrochirus – 120d

Bioconcentration factor (BCF): 1850

### 12.4 Mobility in soil

- No information available

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

### 12.6 Other Adverse Effects

- To the best of our knowledge, the properties of this material have not been fully evaluated.

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## SECTION 13 Disposal considerations

### 13.1 Waste treatment methods

- Disposal should be in accordance with local, regional, national, and/or international hazardous waste regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Do not reuse empty containers.

### 13.2 Classification (REACH)

- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

## SECTION 14 Transport information

### 14.1 UN Number

3283

### 14.2 UN Proper Shipping Name

- Selenium compound, solid, n.o.s. (Sodium selenite mixture)

### 14.3 Transport hazard class(es)

- 6.1

### 14.4 Packing group

- III

### 14.5 Environmental hazards

- Not a marine pollutant

### 14.6 Special precautions for user

- None

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not classified

### 14.8 Domestic Surface Transport (US DOT)

- Proper Shipping Name: Selenium compound, solid, n.o.s. (Sodium selenite mixture)
- DOT UN No.: 3283
- DOT Hazard Class: 6.1
- DOT Packing Group: III

### 14.9 International Road/Rail (ADR/RID)

- Proper Shipping Name: Selenium compound, solid, n.o.s. (Sodium selenite mixture)
- ADR UN No.: 3283
- ADR Hazard Class: 6.1
- ADR Packing Group: III
- Tunnel Code: 2 (E)

### 14.10 Ocean/Sea (IMO/IMDG)

- Proper Shipping Name: Selenium compound, solid, n.o.s. (Sodium selenite mixture)
- IMDG UN No.: 3283
- IMDG Hazard Class: 6.1
- IMDG Packing Group: III

### 14.11 Air (ICAO/IATA)

- Proper Shipping Name: Selenium compound, solid, n.o.s. (Sodium selenite mixture)
- ICAO UN No.: 3283
- ICAO Hazard Class: 6.1
- ICAO Packing Group: III

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## SECTION 15 Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

### 15.2 Chemical Safety Assessment

- No information available

### 15.3 United States Regulatory Information

#### SARA 302 Components

The following components are subject to reporting levels established by SARA Title II, Section 302: Sodium Selenite, CAS No. 10102-18-8

#### SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: Sodium Selenite, CAS No. 10102-18-8

## SECTION 15 Regulatory information (continued)

SARA 311/312

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Toxic Substance Control Act (TSCA)

All components of this material are either listed or exempt from listing on the TSCA Inventory.

State Right-to-Know

## Massachusetts

Sodium selenite, CAS No. 10102-18-8

Sodium phosphate dibasic, CAS No. 7558-79-4

## New Jersey

Sodium selenite, CAS No. 10102-18-8

Sodium phosphate dibasic, CAS No. 7558-79-4

## Pennsylvania

Sodium selenite, CAS No. 10102-18-8

Sodium phosphate dibasic, CAS No. 7558-79-4

## 15.4 Canadian Regulatory Information

- Inventory Status
  - Domestic Substances List (DSL) Listed
  - Non-Domestic Substances List (NDSL) Listed
- Hazards not otherwise classified
  - PHNOC: Combustible dust > 1000lbs/454kg

## SECTION 16 Other information

Date of Preparation: June 2016

Revision: Rev. 0

Replaces: New issue

Text not given with phrase codes where they are used elsewhere in this safety data sheet: H301: Toxic if swallowed. H317: May cause an allergic skin reaction. H331: Toxic if inhaled. H411: Toxic to aquatic life with long lasting effects.

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