

**1 Identification of the substances/ mixture and of the company/ undertaking****1.1 Product Identifiers**

Product Number GM025  
Product Name Selenite Cystine Broth (Twin Pack),Granulated  
REACH Registration Number This product is a mixture. Reach registration number is not available for this mixture.

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

**1.2.1** Relevant identified uses Laboratory Chemicals, Analytical Purpose, Biochemical Analysis  
For InVitro Diagnostic Use

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

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**1.4 Emergency Tel. No.**

Emergency Tel. No. Please contact the regional HiMedia representation in your country

**2 Hazards Identification****2.1 Classification of the substance or mixture**

**CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]**

Acute toxicity, Oral, (Category 3), H301

Acute toxicity, Inhaled, (Category 3), H331

Specific target organ toxicity, repeated exposure, (Category 2), H373

Hazardous to the aquatic environment, long term hazard, (Category 1), H410

**2.2 Label elements**

**Labeling according to Regulation (EC) No.1272/2008**



Pictogram

Signal word Danger

Hazard Statement(s)

H301 Toxic if swallowed

H331 Toxic if inhaled

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)

- P309+P310 If exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.
- P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
- P273 Avoid release to the environment.

**2.3 Other Hazards**  
None

**3 Composition/Information On Ingredients**

**3.2 Mixture**

Component		Classification	Concentration
Sodium hydrogen selenite (Part B)			
CAS No. :	7782-82-3	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral. 3; Acute Tox. inhal. 3; STOT RE 2; Aquatic Chronic 1 H301; H331; H373; H410	>=90 - <=100%
EC No. :	231-966-3		
Index-No :	034-002-00-8		

Refer Section 16 for complete statement of H codes and its classification

**4 First Aid Measures**

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash with plenty of soap and water. Consult a physician.

**In case of eye contact**

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

No data available.

**4.3 Indication of immediate medical attention and special treatment needed**

No data available

**5 Fire Fighting Measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

***Unsuitable extinguishing media***

No data available.

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

Carbon oxides, Oxides of Phosphorus, Sodium oxides, Selenium oxides

**5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary

**5.4 Further information**

No data available

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**6 Accidental Release Measures**

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

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see Section 13.

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**7 Handling and Storage**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

***Recommended Storage Temperature*** : On receipt store between 10-30°C

**7.3 Specific end uses**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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**8 Exposure Controls/Personal Protection**

**8.1 Control parameters**

Components with workplace control parameters

**8.2 Exposure controls**

***Appropriate engineering controls***

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

***Personal protective equipment***

***Hygiene measure***

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

***Eye/face protection***

Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425/EEC and the standard EN ISO 374-1/2016 derived from it.

**Body protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environment exposure controls**

Do not empty into drains.

**9 Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance	Part A :Cream to yellow coloured granular medium Part B : White to cream coloured granular medium
Odour	No data available
Odour Threshold	No data available
pH	6.80 - 7.20
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapour density	No data available
Thermal decomposition	No data available

**9.2 Other safety information**

No data available

**10 Stability and Reactivity****10.1 Reactivity**

No data available

**10.2 Chemical stability**

No data available

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Strong oxidizing agents

**10.6 Hazardous decomposition products**

Refer Section 5.2

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**11 Toxicological Information**

**11.1 Information on toxicological effects**

***Acute toxicity***

No data available

***Skin corrosion/irritation***

No data available

***Serious eye damage/eye irritation***

No data available

***Respiratory or skin sensitisation***

No data available

***Carcinogenicity***

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

***Specific target organ toxicity- single exposure***

No data available

***Aspiration hazard***

No data available

***Potential Health Effects***

***Inhalation***

REFER SECTION 2

***Skin***

REFER SECTION 2

***Eyes***

REFER SECTION 2

***Ingestion***

REFER SECTION 2

***Additional Information***

RTECS : No data available

**11.2 Components**

**Sodium Hydrogen Selenite (Sodium Biselenite)**

*Acute oral toxicity*

LD50 Rat: 2.5 mg/kg (As per RTECS)  
LD50 Rabbit: 8.6 mg/kg (As per RTECS)  
*Acute dermal toxicity*  
No data available  
*Acute inhalation toxicity*  
Toxic if inhaled  
*Specific Target Organ Toxicity-Single exposure*  
No data available  
*Specific Target Organ Toxicity - Repeated exposure*  
May cause damage to organs through prolonged and repeated exposures.  
Effects Respiratory system, lungs, Skin, central nervous system  
Central vascular system, Gastrointestinal tract.

**Additional information**

RTECS number: VS7500000

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**12 Ecological Information**

**12.1 Toxicity**

No data available

**Components:**

**Sodium Hydrogen Selenite (Sodium Biselenite)**

*Toxicity to fish*

Oncorhynchus mykiss (rainbow trout)LC50: 8.1 mg/l; 96h

*Toxicity to Daphnia*

Daphnia magna (Water flea)EC50: 7.9 mg/l; 48h

*Toxicity to Algae*

Pseudokirchneriella subcapitata(green algae)IC50:96.6 mg/l;72h

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 PBT and vPvB assessment**

This preparation contains no substance considered to be persistent,bioaccumulating or toxic (PBT) at levels of 0.1% or higher.

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

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**13 Disposal Considerations**

**13.1 Waste treatments methods**

**Product**

Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose off this material.

### 13.2 Contaminated packaging

Dispose of as unused product.

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## 14 Transport Information

### 14.1 UN-No

ADNR : 2630 ADR : 2630 IATA\_C : 2630 IATA\_P : 2630 IMDG : 2630 RID : 2630

### 14.2 UN proper shipping name

ADNR : Selenate or Selenite  
ADR : Selenate or Selenite  
IATA\_C : Selenate or Selenite  
IATA\_P : Selenate or Selenite  
IMDG : Selenate or Selenite  
RID : Selenate or Selenite

### 14.3 Transport hazard class(es)

ADNR : 6.1 ADR : 6.1 IATA\_C : 6.1 IATA\_P : 6.1 IMDG : 6.1 RID : 6.1

### 14.4 Packaging group

ADNR : I ADR : I IATA\_C : I IATA\_P : I IMDG : I RID : I

### 14.5 Environmental hazards

ADNR : No ADR : No IMDG : Marine Pollutant No IATA\_C : No IATA\_P : No RID : No

### 14.6 Special precautions for use

No data available

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## 15 Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

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

No data available

### 15.2 Chemical Safety Assessment

No data available

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## 16 Other information

Text of H codes and classification mentioned in section 3

H301	Toxic if swallowed
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
Acute Tox. inhal. 3	Acute toxicity, inhaled, Category 3
Acute Tox.oral. 3	Acute toxicity, oral, Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment, long term hazard, Category 1
STOT RE 2	Specific target organ toxicity, repeated exposure, Category 2

## **Further Information**

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.

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