

SELENITE BROTH (SELENITE F BROTH) (DOUBLE PACK) (IS:5887 (Part I, III and IV) 1976, reaffirmed 2005)

SECTION 1: PRODUCT IDENTIFICATION

Product Name: SELENITE BROTH (SELENITE F BROTH) (DOUBLE PACK) (IS:5887 (Part I, III and IV) 1976, reaffirmed 2005)

Product Code: TM 389

REACH Registration Number: This product is a mixture. Reach registration number is not available for this mixture

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

Relevant identified uses : Laboratory Chemicals, Analytical Purpose, Biochemical Analysis.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008. This substance is not classified as dangerous according to directive 67/548/EEC.

Label elements

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

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards

None

SECTION 3: COMPOSITION /INFORMATION ON INGREDIENTS

Mixture

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

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

SECTION 4: FIRST AID MEASURES

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 off with soap and plenty of 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.

Most important symptoms and effects, both acute and delayed

No data available.



SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

No data available

Special hazards arising from the substance or mixture

Carbon oxides, Sodium oxides, Selenium oxides, Oxides of phosphorus

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

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

Methods and materials for containment and cleaning up

Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

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

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 10-25°C

Specific end uses

Apart from the uses mentioned in section 1, no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

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 89/686/EEC and the standard EN 374 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance	:	Part A: White to light yellow homogeneous free flowing powder. Part B: White to cream crystalline powder.
b) Odour	:	No data available
c) Odour Threshold	:	No data available
d) pH	:	6.80 - 7.20
e) Melting point/freezing point	:	No data available
f) Initial boiling point and boiling range	:	No data available
g) Flash point	:	No data available
h) Evaporation rate	:	No data available
i) Flammability (solid, gas)	:	No data available
j) Upper/lower flammability or explosive limits	:	No data available
k) Vapour pressure	:	No data available
l) Vapour density	:	No data available
m) Relative density	:	No data available
n) Water solubility	:	No data available
o) Partition coefficient noctanol/water	:	No data available
p) Auto-ignition temperature	:	No data available
q) Decomposition temperature	:	No data available
r) Viscosity	:	No data available
s) Explosive properties	:	No data available
t) Oxidizing properties	:	No data available
u) Thermal decomposition	:	No data available

Other safety information

No data available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity:No data available

Chemical stability:No data available.

Possibility of hazardous reactions: No data available

Conditions to avoid:No data available

Incompatible materials: No data available



Hazardous decomposition products: Refer Section 5. Other Decomposition products not known

SECTION 11: TOXICOLOGICAL INFORMATION

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 sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity:

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

Reproductive toxicity: No data available

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: Not available

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

SECTION 12: ECOLOGICAL INFORMATION

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

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available



Result of PBT and vPvB assessment

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

Other adverse effects : Discharge into the environment must be avoided

Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATION

Waste treatments methods

Product

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

Contaminated packaging

Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

UN - No

ADNR : 2630 ADR : 2630 IATA_C : 2630 IATA_P : 2630 IMDG : 2630 RID : 2630

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

Transport hazard class(es)

ADNR : - 6.1 ADR : 6.1 IATA_C : 6.1 IATA_P : 6.1 IMDG : 6.1 RID : 6.1

Packaging group

ADNR : I ADR : I IATA_C : I IATA_P : I IMDG : I RID : I

Environmental hazards

ADNR : No ADR : No IMDG : Marine Pollutant No IATA_C : No IATA_P : No RID : No

Special precautions for use No data available

SECTION 15: REGULATORY INFORMATION

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

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

No data available

Chemical Safety Assessment

No data available

SECTION 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

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.

