

## SODIUM THIOGLYCOLATE

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** SODIUM THIOGLYCOLATE

**Product Code:** 3513.

**CAS#:** 367-51-1.

**Synonym:** MERCAPTOACETIC ACID SODIUM SALT

**Chemical Formula:**  $C_2H_3NaO_2S$ .

**Molecular Weight:** 114.10.

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:**

**Name:** Sodium Hydroxide.

**Chemical Formula:**  $C_2H_3NaO_2S$ .

**Molecular Weight:** 114.10.

### SECTION 3: HAZARDS IDENTIFICATION

**Classification of the substance or mixture:** Classification according to Regulation (EC) No 1272/2008

Corrosive to Metals (Category 1), H290

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Dermal (Category 4), H312

Skin sensitization (Category 1), H317

**Other hazards:** This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

### SECTION 4: FIRST AID MEASURES

**Description of first-aid measures:**

**General advice:** Show this material safety data sheet to the doctor in attendance.

**If inhaled:** After inhalation: fresh air.

**In case of skin contact:** In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

**In case of eye contact:** After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

**If swallowed:** After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

### SECTION 5: FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable extinguishing media:** For this substance/mixture no limitations of extinguishing agents are given.

**Special hazards arising from the substance or mixture:** Carbon oxides Sulfur oxides Sodium oxides Not combustible. Ambient fire may liberate hazardous vapours

**Advice for firefighters:** Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**Further information:** Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system



## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

**Environmental precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## SECTION 7: HANDLING AND STORAGE

**Precautions:** Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

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

**Storage conditions** No metal containers. Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

**Storage stability** Recommended storage temperature -20 °C.

**Storage class:** Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure controls:**

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

**Personal protective equipment:**

**Eye/face protection:** Safety glasses with side-shields conforming to EN166 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 of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** protective clothing.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Do not let product enter drains

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                    |                            |
|------------------------------------|----------------------------|
| Physical state and appearance Form | : White crystalline powder |
| Odour                              | : Not available            |
| Taste                              | : Not available            |
| Molecular Weight                   | : Not available            |
| Colour                             | : Not available            |
| pH                                 | : 6.5 - 8.0.               |
| Boiling Point                      | : Not available            |
| Melting Point                      | : Not available            |
| Critical Temperature               | : Not available            |
| Specific Density                   | : Not Available            |
| Vapor Pressure                     | : Not Available            |
| Vapor Density                      | : Not available            |
| Volatility                         | : Not Available            |



|                        |                     |
|------------------------|---------------------|
| Odor Threshold         | : Not Available     |
| Water/Oil Dist. Coeff. | : Not Available     |
| Ionicity (in Water)    | : Not Available     |
| Dispersion Properties  | : Not Available     |
| Solubility             | : Soluble in water. |

## SECTION 10: STABILITY AND REACTIVITY DATA

**Reactivity:** Not Available.

**Chemical stability:** The product is chemically stable under standard ambient conditions (room temperature) Exposure to moisture

**Possibility of hazardous reactions:** Not Available

**Conditions to avoid:** Not Available

**Incompatible materials:** Strong oxidizing agents

## SECTION 11: TOXICOLOGICAL INFORMATION

**Information on toxicological effects:**

**Acute toxicity:** LD50 Oral - Rat - male and female - > 50 - 200 mg/kg (OECD Test Guideline 423) Symptoms: Nausea, Vomiting LC50 Inhalation - Rat - male and female - 4 h - > 2.729 mg/l - dust/mist

LD50 Dermal - Rat - female - > 1.000 - 2.000 mg/kg (OECD Test Guideline 402)

**Skin corrosion/irritation:** Skin - Rabbit Result: slight irritation - 4 h (OECD Test Guideline 404)

**Serious eye damage/eye irritation:** Eyes - Rabbit Result: slight irritation (OECD Test Guideline 405)

**Special Remarks on Toxicity to Animals:** Not available

**Special Remarks on Chronic Effects on Humans:** Not available

**Special Remarks on other Toxic Effects on Humans:** Not available

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity:** Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h

Toxicity to algae ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h

Toxicity to bacteria static test EC50 - activated sludge - 820 mg/l - 0,5 h (OECD Test Guideline 209)

**Persistence and degradability:** Not Available

**Bio accumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## SECTION 14: TRANSPORT INFORMATION

**UN number:**

**ADR/RID:** 2811

**IMDG:** 2811

**IATA:** 2811

**UN proper shipping name**

**ADR/RID:** Toxic solid, organic, n.o.s. (sodium thioglycolate)



**IMDG:** Toxic solid, organic, n.o.s. (sodium thioglycolate)

**IATA:** Toxic solid, organic, n.o.s. (sodium thioglycolate)

**Transport hazard class (es):**

**ADR/RID:** 6.1

**IMDG:** 6.1

**IATA:** 6.1

**Packaging group:**

**ADR/RID:** III

**IMDG:** III

**IATA:** III

**Environmental hazards:**

**ADR/RID:** No

**IMDG Marine pollutant:** No

**IATA:** No

#### SECTION 15: OTHER REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:** This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Other regulations:** Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

#### SECTION 16: OTHER INFORMATION

**References: Full text of H AND R-Statements.**

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H317 May be corrosive to metals

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.