SECTION 1: Identification of the substance/mixture

1.1. Product identifier

Product form : Substance
Substance name : Sodium Thiosulfate Pentahydrate
Formula : Na₂S₂O₃.5H₂O
Molecular weight : 248.18 g/mol
CAS No. : 10102-17-7
Product code : LW-NA2S2O3.5H2O
Synonyms : Sodium Hyposulfite

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

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.3. Emergency telephone number

Emergency number : 1.800.424.9300 (USA)
+1.703.527.3887 (INT)

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2. GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

none

SECTION 3: Composition/information on ingredients

3.1. Substances

Formula : Na₂S₂O₃.5H₂O
Synonyms : Sodium Hyposulfite
Molecular Weight : 248.18 g/mol
CAS-No. : 10102-17-7

Hazardous components

No ingredients are hazardous according to OSHA criteria.
No components need to be disclosed according to the applicable regulations.
SECTION 4: Description of first aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

First-aid measures after skin contact: Wash off with soap and plenty of water.

First-aid measures after eye contact: Flush eyes with water as a precaution.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. More Information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Do not store near acids.
Keep in a dry place. Keep in a dry place.

7.3. Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2. Exposure controls
Appropriate engineering controls : General industrial hygiene practice.

8.3. Personal protective equipment
Eye protection : 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.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under
conditions which differ from EN 374, contact the supplier of the
CE approved gloves. This recommendation is advisory only and
must be evaluated by an industrial hygienist and safety officer
familiar with the specific situation of anticipated use by our
customers. It should not be construed as offering an approval for
any specific use scenario.

Body protection
Choose body protection in relation to its type, to the
concentration and amount of dangerous substances, and to the
specific work-place., The type of protective equipment must be
selected according to the concentration and amount of the
dangerous substance at the specific workplace.

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).

Environmental exposure controls
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
Form: powder/crystals
Color: white

Odor
no data available

Odor Threshold
No data available

pH
No data available

Melting point/freezing point
No data available

Initial boiling point and boiling range
No data available

Flash point
Not applicable

Evaporation rate
No data available

Flammability (solid, gas)
No data available
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Upper/lower flammability or explosive limits : No data available
Vapor pressure : No data available
Vapor density : No data available
Relative density : No data available
Water solubility : No data available
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other safety information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
No data available

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
Sodium nitrate, acids, Strong oxidizing agents, Incompatible with:, iodides, Silver salts, mercury salts, Lead

10.6. Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Sodium oxides
Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : LD50 Oral - rat - > 8,000 mg/kg
Sodium Thiosulfate Pentahydrate
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Inhalation: no data available
Dermal: no data available
LD50 Intraperitoneal - mouse - 5,200 mg/kg

Skin corrosion/irritation: no data available
Serious eye damage/irritation: no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: 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.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available
Specific target organ toxicity (single exposure): No data available
Specific target organ toxicity (repeated exposure): No data available
Aspiration hazard: No data available
Additional Information: RTECS: XN6476000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1. Toxicity
Toxicity to fish: LC50 - Gambusia affinis (Mosquito fish) - 24,000 mg/l - 96 h

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. Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects: No data available
SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging: Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
- Sodium thiosulfate pentahydrate
  - CAS-No.: 10102-17-7
  - Revision Date:

New Jersey Right To Know Components
- Sodium thiosulfate pentahydrate
  - CAS-No.: 10102-17-7
  - Revision Date:

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
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SECTION 16: Other information

HMIS Rating
Health Hazard : 0
Chronic Health Hazard :
Flammability : 0
Physical Hazard : 0

NFPA Rating
Health hazard : 0
Fire Hazard : 0
Reactivity Hazard : 0

Further Information
Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Issuer assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his/her application.