SAFETY DATA SHEET

Sodium Thiosulfate Pentahydrate (Rice Crystals)

Prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS

SDS DATE	VERSION	PRODUCT CODE (SKU)	CAS NO.
11/03/2026	1.0 (Preliminary)	SOD.THIO-1LB	10102-17-7

SECTION 1: IDENTIFICATION

1.1 Product identifier

Product name	**Sodium Thiosulfate Pentahydrate (Rice Crystals)**
Product code (SKU)	SOD.THIO-1LB
Chemical name / synonyms	Sodium hyposulfite pentahydrate; disodium thiosulfate pentahydrate; “hypo”
CAS No.	10102-17-7
Product form	Substance

1.2 Recommended use and restrictions on use

Recommended use	Raw material for formulation and manufacture of cosmetic, personal-care and holistic products.
Uses advised against	None identified.

1.3 Responsible party and supplier

Supplier / responsible party	**LA Ingredients** 853 Sandhill Avenue Carson, CA 90746, USA
Email / website	support@laingredients.com laingredients.com

1.4 Emergency telephone number

Emergency telephone (24 hours)	**+1 656 232 3588** Hazmat Line Emergency Response (24 hours a day, 7 days a week)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture (GHS / OSHA HCS 2012)

Not classified as hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS, based on the source data.

2.2 GHS label elements

Signal word	None
Hazard statement(s)	None. Not applicable.
Precautionary statement(s)	None required for classification. See Sections 7 and 8 for good-practice handling.

2.3 Hazards not otherwise classified (HNOC)

Fine dust may form combustible dust concentrations in air. May be hygroscopic and sensitive to light and air.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance. Single component.

Chemical name	CAS No.	EC No.	Concentration	GHS classification
Sodium thiosulfate pentahydrate	10102-17-7	231-867-5	≈ 100 %	Not classified

SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

General advice	If symptoms develop or persist, get medical attention. Show this SDS to the medical professional.
Inhalation	Move the person to fresh air. Get medical attention if coughing, irritation or other symptoms develop or persist.
Skin contact	Remove contaminated clothing. Wash with soap and plenty of water. Get medical attention if irritation develops or persists.
Eye contact	Rinse with plenty of water for at least 15 minutes, holding the eyelids open. Remove contact lenses if present and easy to do. Get medical attention if irritation persists.
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur or if a large amount was swallowed.

4.2 Most important symptoms and effects, acute and delayed

Dust may cause mild, temporary irritation of the eyes, skin and respiratory tract. Ingestion of large amounts may cause nausea, vomiting and diarrhea.

4.3 Immediate medical attention and special treatment

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable	Use extinguishing media appropriate for the surrounding fire: water spray, carbon dioxide, dry chemical or foam.
Unsuitable	None known.

5.2 Special hazards arising from the substance or mixture

Not readily flammable; fine dust may form combustible mixtures with air. Hazardous combustion products: sulfur oxides and sodium oxides.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus (SCBA) and full protective clothing. Cool exposed containers with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear gloves, eye protection and, where dust is generated, a dust mask (see Section 8). Avoid dust formation.

6.2 Environmental precautions

Prevent entry into drains, sewers and waterways. Notify the appropriate authorities if a large release reaches water.

6.3 Methods and materials for containment and cleaning up

Avoid dust formation. Sweep or shovel spilled material into suitable, closed containers for disposal.

Clean the affected area with water. Do not return spilled material to the original container.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid dust formation and breathing dust. Use with adequate ventilation.

Keep containers closed when not in use. Wash hands after handling. Do not eat, drink or smoke in work areas.

7.2 Conditions for safe storage, including incompatibilities

Store in a cool, dry, well-ventilated place in the original tightly closed container, protected from light and moisture. Store away from strong oxidizers and acids.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No occupational exposure limit established for this product. If dust is present, the limits for particulates not otherwise regulated apply (OSHA PEL 15 mg/m³ total dust, 5 mg/m³ respirable fraction).

8.2 Appropriate engineering controls

Normal general ventilation is adequate. Use local exhaust ventilation if dust or mist is generated.

8.3 Individual protection measures / personal protective equipment (PPE)

Eye / face	Safety glasses with side shields; chemical goggles where splashing or airborne dust is likely.
Skin / hands	Protective gloves recommended (for example nitrile or other chemically resistant gloves).
Body	Normal work clothing.
Respiratory	Not required under normal conditions of use. If dust is generated and ventilation is inadequate, use a NIOSH-approved particulate respirator.
Hygiene	Wash hands after handling. Do not eat, drink or smoke when using this product. Eyewash and washing facilities should be accessible.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid (crystals)
Color	White / colorless
Odor	Odorless
Odor threshold	No data available
pH	6.0 – 8.4 (10 % aqueous solution)
Melting point / freezing point	Approx. 48.5 °C (melts / decomposes in its water of crystallization)
Boiling point / range	No data available
Flash point	Not applicable

Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density / specific gravity	No data available
Solubility in water	Soluble
Solubility in other solvents	No data available
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	Decomposes on heating above approx. 45 °C
Viscosity	No data available
Explosive properties	Not explosive; fine dust may form combustible mixtures with air
Oxidizing properties	Non-oxidizing

9.2 Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No dangerous reactions known under normal conditions of use.
10.2 Chemical stability	Stable under recommended storage and handling conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerization will not occur.
10.4 Conditions to avoid	Heat (above approx. 45 °C), light, air/moisture exposure, dust formation and incompatible materials.
10.5 Incompatible materials	Strong oxidizing agents; strong acids (release sulfur dioxide and sulfur).
10.6 Hazardous decomposition products	Sulfur oxides and sodium oxides when heated or in a fire.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure	Eye and skin contact; inhalation of dust; ingestion.
Acute toxicity	Oral LD50 (rat): 5,000 mg/kg (component data). Not classified.
Skin corrosion / irritation	Not classified.
Serious eye damage / irritation	Not classified.
Respiratory or skin sensitization	Not classified.

Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified. No component present at 0.1% or more is listed as a carcinogen by IARC, NTP, ACGIH or OSHA.
Reproductive toxicity	Not classified.
STOT – single exposure	Not classified.
STOT – repeated exposure	Not classified.
Aspiration hazard	Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity	Fish LC50: > 10,000 mg/L.
12.2 Persistence and degradability	Inorganic salt; not applicable.
12.3 Bioaccumulative potential	Not expected to bioaccumulate.
12.4 Mobility in soil	Soluble in water; mobile in soil.
12.5 PBT and vPvB assessment	No data available.
12.6 Other adverse effects	None known. Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Product	Dispose of in accordance with federal, state and local regulations. Do not pour into drains or sewers unless permitted. Waste classification may change if the product is used or altered.
Contaminated packaging	Empty containers completely. Dispose of as unused product, or recycle where facilities exist.

SECTION 14: TRANSPORT INFORMATION

DOT (US)	Not regulated as dangerous goods.
IMDG (sea)	Not regulated as dangerous goods.
IATA (air)	Not regulated as dangerous goods.
UN number / packing group	Not applicable.

SECTION 15: REGULATORY INFORMATION

OSHA HCS	Not classified as hazardous under 29 CFR 1910.1200 based on the source data.
TSCA	Sodium thiosulfate is listed on the TSCA Inventory. Status of the pentahydrate form to be confirmed with the supplier for the final SDS.
SARA 302 / 311-312 / 313	No SARA 313 reportable components per the source data. No SARA 311/312 hazard categories identified.

California Proposition 65	No Proposition 65 listed chemicals reported in the source data.
Compliance	Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.

SECTION 16: OTHER INFORMATION

Date of issue / last revision	11/03/2026
Version	1.0 (Preliminary)
Supersedes	**None (first issue)**
Prepared by	LA Ingredients, 853 Sandhill Avenue, Carson, CA 90746 | support@laingredients.com
Basis of this SDS	PRELIMINARY. Compiled by LA Ingredients from two published safety data sheets for equivalent material (sodium thiosulfate pentahydrate, CAS 10102-17-7), revisions dated 06/25/2015 and 10/10/2024. The supplier-specific SDS was not yet available. This SDS will be superseded when it is.

Hazard ratings (as given by the manufacturer)

NFPA 704	Health 1 | Flammability 1 | Instability 1

Key to abbreviations

CAS = Chemical Abstracts Service; GHS = Globally Harmonized System; OSHA HCS = OSHA Hazard Communication Standard; PEL = permissible exposure limit; TLV = threshold limit value; TWA = time-weighted average; LD50 / LC50 / EC50 = median lethal dose / lethal concentration / effective concentration; PBT / vPvB = persistent, bioaccumulative, toxic / very persistent, very bioaccumulative; OECD = Organisation for Economic Co-operation and Development; DOT = US Department of Transportation; IMDG = International Maritime Dangerous Goods Code; IATA = International Air Transport Association; TSCA = Toxic Substances Control Act; SARA = Superfund Amendments and Reauthorization Act; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; STOT = specific target organ toxicity; HNOC = hazard not otherwise classified; HMIS = Hazardous Materials Identification System; NFPA = National Fire Protection Association; IARC = International Agency for Research on Cancer; NTP = National Toxicology Program; ACGIH = American Conference of Governmental Industrial Hygienists; PNOC = particulates not otherwise classified; USP = United States Pharmacopeia; FCC = Food Chemicals Codex; AIHA WEEL = American Industrial Hygiene Association Workplace Environmental Exposure Level.

Notes

This is a **Preliminary** SDS compiled by LA Ingredients from published safety data sheets for equivalent material, issued by two independent suppliers, because the product-specific supplier SDS was not yet available. Where the sources differed, the more conservative (more protective) value was used. Physical values may differ from the lot supplied. This SDS will be superseded when the supplier-specific SDS is received.

The more protective of the two NFPA ratings (1/1/1) is shown. The incompatibility with acids is a general chemical-safety note added by LA Ingredients.

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