

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Sodium tin (IV) oxide trihydrate

CAS number 12209-98-2

Synonyms Sodium stannate trihydrate

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

Identified uses Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin CorrosionCategory 1BSerious Eye DamageCategory 1Short-term (Acute) Aquatic HazardCategory 3Long-term (Chronic) Aquatic HazardCategory 3

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements Causes severe skin burns and eye damage.

Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: Do not breathe dusts or mists. Wash face, hands, and any exposed skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/ doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

Storage: Store locked up.

Disposal: Dispose of contents/container to an approved waste disposal plant.

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

None identified.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration	
Sodium tin(IV) oxide trihydrate	Sodium stannate trihydrate	12209-98-2	<= 100%	

SECTION 4: First aid measures

4.1 Description of first-aid measures

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General advice

If inhaled Fresh air. Call physician.

In case of skin contact Take off all contaminated clothing immediately. Rinse skin with

water/shower. Call a physician immediately.

In case of eye contact Rinse out with plenty of water. Immediately call ophthalmologist. Remove

contact lenses.

If swallowed Make victim drink water (two glasses at most), avoid vomiting (risk of

perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

Burning sensation.

4.3 Indication of any immediate medical attention and special treatment needed

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate

to local circumstances and the surrounding

environment.

Unsuitable extinguishing mediaFor this substance/mixture, no limitations of

extinguishing agents are given.

5.2 Specific hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapours, such as sodium oxides and tin oxides.

5.3 Special protective equipment and precautions 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.

5.4 Further information

Flash Point No information available.

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Autoignition Temperature

No information available.

Explosion limits

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Avoid contact with skin, eyes, or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

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Incompatibilities

Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
Sodium tin oxide trihydrate	TWA	2 mg/m3

US. ACGIH Threshold Limit Values

Component	Туре	Value
Sodium tin oxide trihydrate	TWA	2 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Sodium tin oxide trihydrate	TWA	2 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

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

Skin protection

Handle with impervious gloves.

Body Protection

Protective clothing.

Respiratory protection

Recommended Filter type: Filter type P2. Required when dusts are generated.

Control of environmental exposure

Do not let product enter drains.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid Appearance White

Odor
Odor Threshold
PH
No information available
No information available

Melting Point/Range > 140 °C / 284 °F

Boiling Point/Range No information available
Evaporation Rate No information available
Flammability (solid) No information available
Flammability or explosive limit No information available

Upper

Lower

Vapor Pressure

Vapor Density

Density

No information available

No information available

No information available

Solubility Soluble in water

Partition coefficient: No information available

n-octanol/water

Autoignition Temp No information available

Decomposition Temp > 140 °C / 284 °F

Viscosity No information available

Molecular Formula Na2SnO3-3H2O Molecular Weight 266.73 g/mol

VOC Content(%) No information available

Oxidizing properties None

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

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Exposure to air or moisture over prolonged periods.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

None known based on information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium tin oxide	3,457 mg/kg (Rat)	-	-

Skin corrosion/irritation

Causes skin burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sodium tin oxide trihydrate	12209-98-2	Not listed				

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Reproductive toxicity

No data available.

Chronic effects

Redness. Burning. May cause blindness. Coughing and/ or wheezing.

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11.2 Additional Information

The toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1 Toxicity

Product	Species	Test Results	
Sodium tin oxide	Freshwater Fish (Oncorhynchus mykiss)	LC50 > 100 mg/L, 96 h, semi-static	
Socium un oxide	Freshwater Algae (Desmodesmus subspicatus)	EC50 = 37.9 mg/L, 72 h, static	

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-no UN3262

Proper Shipping Name Corrosive solid, basic, inorganic, n.o.s.

Hazard Class 8

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Packing Group II

IMDG

UN-no UN3262

Proper Shipping Name Corrosive solid, basic, inorganic, n.o.s.

Hazard Class 8
Packing Group II

IATA

UN-no UN3262

Proper Shipping Name Corrosive solid, basic, inorganic, n.o.s.

Hazard Class 8
Packing Group II

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not applicable.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No SARA Hazards.

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

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Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Not listed.

US. New Jersey Worker and Community Right-to-Know Act Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

California Proposition 65

Not listed.

SECTION 16: Other information

Issue date: 09/27/2024

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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