Shanghai Aladdin Biochemical Technology Co., Ltd.
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

SAFETY DATA SHEET

Version: v1
Revision Date: 2025-08-19
Print Date: 2025-08-19

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

1.1 Product identifiers

Product name	: Tin(II) chloride dihydrate
Product Number	: S111951
Brand	: aladdin
CAS-No.	: 10025-69-1

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

Identified uses	: Laboratory chemicals,Manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company	: Shanghai Aladdin Biochemical Tech Co.,Ltd
Address	: 36 Xinjinqiao Road, Shanghai
Telephone	: 400-620-6333
Fax	: no data available

1.4 Emergency telephone number

Emergency Phone	: 0532-83889090

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals Category 1

Acute Inhalation Toxicity - Dusts and Mists Category 4

Skin Corrosion/Irritation Category 1B

Serious Eye Damage/Eye Irritation Category 1

Skin Sensitization Category 1

Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system. Specific target organ toxicity - (repeated exposure) Category 2

Target Organs - Kidney, spleen, Blood.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P234	Keep only in original container.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor/physician.
P333	If skin irritation or rash occurs:
P363	Wash contaminated clothing before reuse.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

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

Harmful to aquatic life with long lasting effects

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Tin(II) chloride dihydrate;Stannous chloride dihydrate
Formula	: SnCl2·2H2O
Molecular weight	: 225.65
CAS No.	: 10025-69-1
EC-NO.	: 231-868-0

Component	Classification	Concentration
Tin(II) chloride dihydrate		

Component	Classification	Concentration
	no data available	AR, ≥98%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.

In case of eye contact

RinseImmediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

If swallowed

Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of 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

Suitable extinguishing media

Water,Foam,Carbon dioxide (CO2),Dry powder

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

wear self-contained breathing and full protective gear.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

6.2 Environmental precautions

Should not be released into the environment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment. Avoid dust formation.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

7.2 Conditions for safe storage, including any incompatibilities

Seal the container in a dry, cool, and well ventilated place. Sensitive to air

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 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

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(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. The selected protective

gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.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 fullface particle respirator type N100 (US) or type P3 (EN 143) 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).

Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: Solid color: Colorless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	37-38 °C
f) Initial boiling point and boiling range	652°C
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	2.71
n) Water solubility	no data available
o) Partition coefficient: n-octanol/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 N	no data available
t) Oxidizing properties N	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

Possible violent reactions may occur with it: strong acid hydrogen peroxide There may be a risk of fire or the production of flammable gases or vapors when interacting with it: Halogen halogen compounds Ethylene Oxide carbide There is an explosion hazard associated with its effect: Hydrazine and its derivatives nitrate alkali metal strong oxidizing agent

10.4 Conditions to avoid

Avoid dust formation. Excess heat. Exposure to moist air or water.

10.5 Incompatible materials

Strong oxidizing agents, Peroxides, Alkali metals,

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors, Hydrogenchloride gas

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - Male -1910 mg/kg
(OECD Testing Guideline 423)
Note: (Anhydrous substance)
LC50 inhalation - rats - male and female -4 h -2 mg/l - dust/smoke
(OECD Testing Guideline 436)
Note: (Anhydrous substance)
Transcutaneous: No data available
No data available

Skin corrosion/irritation
Skin - Rabbit Result: Corrosive -4 hours (OECD Testing Guideline 404) Note: (Anhydrous substance)
Serious eye damage/eye irritation
Causing serious eye damage.
Respiratory or skin sensitisation
Skin test: - person Result: Positive Remarks: (ECHA) (Anhydrous substance)
Germ cell mutagenicity
Test type: In vitro mammalian cell gene mutation assay Testing System: Mouse lymphoma test Metabolic activation: with or without metabolic activation effect Method: OECD Testing Guidelines 476 Result: Negative Note: (Anhydrous substance) Test type: Mutation (mammalian cell test): Micronucleus positive Species: Mouse Route of infection: Intraperitoneal injection Result: Negative Note: (International Toxicology Program) (Anhydrous substance)

Carcinogenicity
no data available
Reproductive toxicity
no data available
Specific target organ toxicity - single exposure
Respiratory system
Specific target organ toxicity - repeated exposure
Kidney spleen Blood
Aspiration hazard
no data available
Additional Information
Registration of Toxic Effects of Chemical Substances: XP8850000
To our knowledge, the chemical, physical, and toxic properties of this substance have not been fully studied.

SECTION 12: Ecological information

12.1 Toxicity

Static toxicity test for fish LC50- Other fish -10.19 mg/l -96 h
Note: Corresponding values have been specified for the following substance: tin dichloride
Toxicity to Daphnia and other aquatic invertebrates EC50- Daphnia -22-55 mg/l -48 h. Note: (ECHA) specifies corresponding values for the following substances: Tin dichloride
Static test for toxicity (chronic toxicity) to water fleas and other aquatic invertebrates NOEC - Daphnia magna -0.18 mg/l -21 days
(OECD Testing Guideline 211)
Note: Corresponding values have been specified for the following substance: tin dichloride

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

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

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.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: UN3260	Packing group: II	Class: 8
Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: no data available
Environmental Hazards: no		

IMDG

UN number: UN3260	Packing group: II	EMS-No: no data available
Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.		

IATA

UN number: UN3260	Packing group: II	Class: 8
Proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.		

SECTION 15: Regulatory information

Please note that waste disposal should also meet local regulations. If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals (adopted by the State Council on December 4, 2013).

SECTION 16: Other information

Further information

 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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