

Safety Data Sheet SNT7921

Issue date: 26/10/2015 Revision date: 20/08/2021 Version: 1.2

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

1.1. Product identifier

Product form : Substance
Physical state : Solid

Substance name : TIN(II) CHLORIDE, dihydrate

Product code : SNT7921
Formula : Cl2Sn·2H2O

Synonyms : STANNOUS CHLORIDE, DIHYDRATE

Chemical family : INORGANIC TIN

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

GELEST, INC.

11 East Steel Road Morrisville, PA 19067

USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

GELEST INC.

Fritz-Klatte-Strasse 8 65933 Frankfurt

Germany

T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM

info@gelestde.com - www.gelestde.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4

Skin corrosion/irritation, Category 1, Sub-Category 1C

Serious eye damage/eye irritation, Category 1

H318

Germ cell mutagenicity, Category 2

H341

Reproductive toxicity, Category 2

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Print date: 03/09/2021 EN (English) SDS ID: **SNT7921** 1/10

Safety Data Sheet

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H341 - Suspected of causing genetic defects.

H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P260 - Do not breathe dust.

P264 - Wash hands thoroughly after handling.

P405 - Store locked up.

P310 - Immediately call a POISON CENTER or doctor.

Other hazards

SECTION 3: Composition/information on ingredients

Substances

: Mono-constituent Substance type

: TIN(II) CHLORIDE, dihydrate Name

CAS-No. : 10025-69-1

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tin (II) chloride, dihydrate	(CAS-No.) 10025-69-1 (EC-No.) 600-045-1	> 95	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Muta. 2, H341 Repr. 2. H361

Full text of H-statements: see section 16

3.2. **Mixtures**

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if

you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/.... Get immediate medical advice/attention.

: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if First-aid measures after eye contact

present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

: Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. Symptoms/effects

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes (severe) skin burns. Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion Harmful if swallowed. Swallowing a small quantity of this material will result in serious health

Chronic symptoms : Exposure to dust or fumes of inorganic tin compounds is known to cause a benign

pneumoniosis. (stannosis).

SDS ID: **SNT7921** Print date: 03/09/2021 EN (English) 2/10

Safety Data Sheet

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Not flammable.
Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Avoid contact with skin and

eyes. Do not breathe dust.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local exhaust or general room ventilation to minimize exposure to dust.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store locked up.

Incompatible materials : Strong oxidizing agents.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tin (II) chloride, dihydrate (10025-69-1)			
Italy - Portugal - USA ACGIH	ACGIH OEL TWA	2 mg/m³ as tin	
USA OSHA	OSHA PEL TWA [1]	2 mg/m³ as tin	
Finland	HTP (OEL TWA) [1]	2 mg/m³	

Print date: 03/09/2021 EN (English) SDS ID: **SNT7921** 3/10

Safety Data Sheet

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Neoprene or nitrile rubber gloves

Eye protection:

Chemical goggles or face shield. Contact lenses should not be worn

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Flakes.

Molecular mass : 225.63/261.66 g/mol

Colour : White.

Odour characteristic.

Odour threshold : No data available

Refractive index : No additional information available

pH : No data available Relative evaporation rate (butylacetate=1) : No data available

Melting point : 37.7 °C decomposes

Freezing point : No data available

Boiling point : 652 °C (anhydrous)

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable.

Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : 2.71 % Volatiles : < 1 %

Solubility : Soluble in water.

Organic solvent:Soluble: methanol, ethyl acetate

Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available No data available

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable.

Print date: 03/09/2021 EN (English) SDS ID: **SNT7921** 4/10

Safety Data Sheet

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Tin chloride. Tin oxide fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Not classified. Not classified.

TIN(II) CHLORIDE, dihydrate (10025-69-1)			
LD50 oral rat	1200 mg/kg		
ATE CLP (oral)	ral) 1200 mg/kg bodyweight		
Tin (II) chloride, dihydrate (10025-69-1)			
LD50 oral rat	1200 mg/kg ; 2274.6 mg/kg		
ATE CLP (oral)	1200 mg/kg bodyweight		

Skin corrosion/irritation : Causes severe skin burns.
Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Suspected of causing genetic defects.

Animal testing indicates that this material is a probable mutagen.

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Animal testing indicates that this material is a probable reproductive effector.

STOT-single exposure : Not classified.
STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Causes (severe) skin burns.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Harmful if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

Chronic symptoms : Exposure to dust or fumes of inorganic tin compounds is known to cause a benign

pneumoniosis. (stannosis).

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

Print date: 03/09/2021 EN (English) SDS ID: **SNT7921** 5/10

Safety Data Sheet

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Product/Packaging disposal recommendations : Dispose of solid materials or residues at a licensed site. Dispose in a safe manner in

accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

UN-No. (ADR) : 3260 UN-No. (IMDG) : 3260 UN-No. (IATA) : 3260 UN-No. (ADN) : 3260 UN-No. (RID) : 3260

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IMDG) : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Proper Shipping Name (IATA) : Corrosive solid, acidic, inorganic, n.o.s.

Proper Shipping Name (ADN) : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (RID) : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Transport document description (ADR) : UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (TIN(II) CHLORIDE, dihydrate),

8, III, (E)

Transport document description (IMDG) : UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (TIN(II) CHLORIDE, dihydrate),

8, III

Transport document description (IATA) : UN 3260 Corrosive solid, acidic, inorganic, n.o.s. (TIN(II) CHLORIDE, dihydrate), 8, III

Transport document description (ADN) : UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (TIN(II) CHLORIDE, dihydrate),

8, 111

Transport document description (RID) : UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (TIN(II) CHLORIDE, dihydrate),

8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8





IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8

:



IATA

Transport hazard class(es) (IATA) : 8
Danger labels (IATA) : 8

Print date: 03/09/2021 EN (English) SDS ID: **SNT7921** 6/10

Safety Data Sheet



ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C2
Special provisions (ADR) : 274
Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions : T1

(ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAV
Vehicle for tank carriage : AT
Transport category (ADR) : 3

Special provisions for carriage - Bulk (ADR) : VC1, VC2, AP7

Hazard identification number (Kemler No.) : 80

Orange plates

80 3260

: TP33

Tunnel restriction code (ADR) : E

Print date: 03/09/2021 EN (English) SDS ID: **SNT7921** 7/10

Safety Data Sheet

EAC code : 2X

- Transport by sea

Special provisions (IMDG): 223, 274Limited quantities (IMDG): 5 kgExcepted quantities (IMDG): E1

Packing instructions (IMDG) : P002, LP02 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B3 Tank instructions (IMDG) : T1 : TP33 Tank special provisions (IMDG) · F-Δ EmS-No. (Fire) EmS-No. (Spillage) : S-B : A Stowage category (IMDG)

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y845 : 5kg PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) : 860 PCA max net quantity (IATA) : 25kg CAO packing instructions (IATA) : 864 CAO max net quantity (IATA) : 100kg Special provisions (IATA) АЗ ERG code (IATA) 8L

- Inland waterway transport

Classification code (ADN) : C2

Special provisions (ADN) : 274

Limited quantities (ADN) : 5 kg

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : C2
Special provisions (RID) : 274
Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions : T1

(RID)

Portable tank and bulk container special : TP33

provisions (RID)

Tank codes for RID tanks (RID) : SGAV
Transport category (RID) : 3

Special provisions for carriage – Bulk (RID) : VC1, VC2, AP7

Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

 Print date: 03/09/2021
 EN (English)
 SDS ID: SNT7921
 8/10

Safety Data Sheet

TIN(II) CHLORIDE, dihydrate is not on the REACH Candidate List

TIN(II) CHLORIDE, dihydrate is not on the REACH Annex XIV List

TIN(II) CHLORIDE, dihydrate is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

TIN(II) CHLORIDE, dihydrate is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

% Volatiles : < 1 %

15.1.2. National regulations

Germany

Regulatory reference : Not classified according to Regulation Governing Systems for Handling Substances Hazardous

to Waters (AwSV)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed SZW-lijst van reprotoxische stoffen - : The substance is not listed

Borstvoeding

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Ontwikkeling

DenmarkDanish National Regulations

: Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the

product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information : Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C

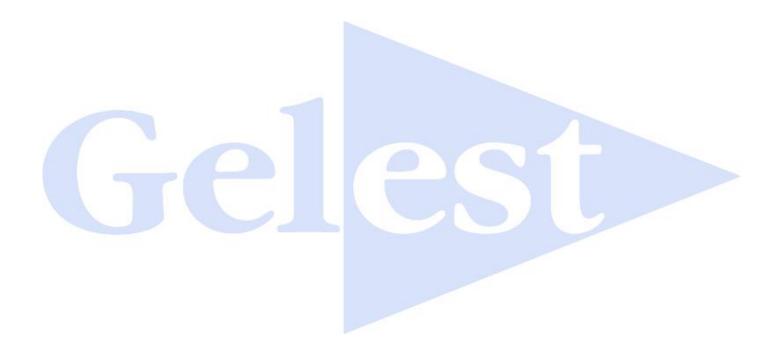
SDS EU (REACH Annex II) - Custom

Print date: 03/09/2021 EN (English) SDS ID: **SNT7921** 9/10

Safety Data Sheet

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

© 2020 Gelest Inc. Morrisville, PA 19067



Print date: 03/09/2021 EN (English) SDS ID: **SNT7921** 10/10