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	Version 1
1 Identification	
Product identifier Product name: Tin(II) chloride dihydrate	
Stock number: 11536	
CAS Number: 10025-69-1	
<i>EC number:</i> 600-045-1	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.	
30 Bond Street Ward Hill, MA 01835-8099	
Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-07	789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage.	
Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Hazard pictograms	
GHS05	
Signal word Danger	
Hăzard statements H314 Causes severe skin burns and eye damage.	
Precautionary statements P260 Do not breathe dusts or mists.	
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.	
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects E - Corrosive material	
Classification system HMIS ratings (scale 0-4)	
(Hazardou's Materials Identification System)	
HEALTH I Health (acute effects) = 3 FIRE I Flammability = 0 REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS# Description: 10025-69-1 Tin(II) chloride dihydrate	
Concentration: ≤100% Identification number(s): EC number: 600-045-1	
4 First-aid measures Description of first aid measures	
General information Immediately remove any clothing soiled by the product. After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
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After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Hydrogen chloride (HCI) Tin oxides Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 7 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: 11 mg/m3 PAC-3: 760 mg/m3	
7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: The product is not flammable Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from air. Store away from sitrong bases. Store away from sidzing agents. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store in cool, dry productions in well sealed containers. Store in cool, dry productions in well sealed containers. Store and (y conditions in well sealed containers.	
8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace:	
Outpoints within the state of the workplace. 10025-69-1 Tin(II) chloride dihydrate (100.0%) PEL (USA) Long-term value: 2 mg/m³ as Sn REL (USA) Long-term value: 2 mg/m³ as Sn TLV (USA) Long-term value: 2 mg/m³ as Sn EV (Canada) Long-term value: 2 mg/m³ as Sn Additional information: No data Exposure controls Personal protective equipment	
General protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	(Contd. on page 3) USA

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(Contd. of page 2) Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present. Use suitable respiratory protective device in case of insufficient ventilation. **Recommended filter device for short term use:** Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. **Protection of hands:** Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Material of gloves** Nitrilie rubber, NBR **Penetration time of glove material (in minutes)** 480 Maintain an ergonomically appropriate working environment. Glove thickness: 0.11 mm **Eye protection:** Tightly sealed goggles Full face protection Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and che General Information Appearance: Form: Odor: Odor: Odor threshold:	emical properties Crystalline Not determined Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	43-46 °C (109-115 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water). Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not applicable. 2.71 g/cm ³ (22.615 lbs/gal) Not determined. Not applicable. 1187 g/l Soluble Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
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10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Air Bases Oxidizing agents Hazardous decomposition products: Hydrogen chloride (HCl) Tin oxides 11 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: Oral LD50 2274.6 mg/kg (rat) Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. (Contd. on page 4)

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Additional toxicological information: To the best of our knowledge	the acute and chronic toxicity of this substance is not fully known. (Contd. of pa
2 Ecological information	
Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information availa Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground wat Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
Other adverse effects No further relevant information available.	
3 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensu Uncleaned packagings: Recommendation: Disposal must be made according to official regul Recommended cleansing agent: Water, if necessary with cleansing	
4 Transport information	
UN-Number DOT, IMDG, IATA	UN3260
UN proper shipping name DOT ADR IMDG, IATA	Corrosive solid, acidic, inorganic, n.o.s. (Tin(II) chloride dihydrate) 3260 Corrosive solid, acidic, inorganic, n.o.s. (Tin(II) chloride dihydrate) CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Tin(II) chloride dihydrate)
Transport hazard class(es) DOT Class Label ADR	8 Corrosive substances 8
Class Label IMDG, IATA	8 (C2) Corrosive substances 8
Class Label	8 Corrosive substances 8
Packing group DOT, ADR, IMDG, IATA	<i>III</i>
Environmental hazards:	Not applicable.
Special precautions for user EMS Number: Segregation groups Stowage Category	Warning: Corrosive substances F-A,S-B Acids A
Transport in bulk according to Annex II of MARPOL73/78 and the	BC Code Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg
Marine Pollutant (DOT):	On cargo aircran only: 100 kg No
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (TIN(II) CHLORIL DIHYDRATE), 8, III

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

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(Contd. of page 4) Hazard pictograms 正言 GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements Precautionary statements Do not breathe dusts or mists. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations Dispose of contents/container in accordance with local/regional/national/international regulations.
 National regulations
 All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
 All components of this product are listed on the Canadian Domestic Substances List (DSL).
 SARA Section 313 (specific toxic chemical listings) Substance is not listed.
 California Proposition 65
 Prop 65 - Chemicals known to cause cancer Substance is not listed.
 Prop 65 - Developmental toxicity, female Substance is not listed.
 Prop 65 - Developmental toxicity, female Substance is not listed.
 Prop 65 - Developmental toxicity, male Substance is not listed.
 Prop 65 - Developmental toxicity, male Substance is not listed.
 Other regulations about limitation of use: For use only by technically qualified individuals.
 Other regulations, limitations and prohibitive regulations Other regulations, limitation of use, For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user."
Department issuing SDS: Global Marketing Department
Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
Abbreviations and accomyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
MDG: International Amittime Code for Dangerous Goods
DOT: US Department of Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Substances
LCSO: Lethal concentration, 50 percent
DDS): Lethal concentration, 50 percent
DDS): Europeant and very Bioaccumulative
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
VPVE: very Persistent and very Bioaccumulative (USA)
WTP: National Toxicology Program (USA)
AFR: Occupational Safety and Health Administration (USA)
WTP: National Toxicology Program (USA)
AFR: Occupational Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1