

## SAFETY DATA SHEET

Preparation Date: 09/23/2019

Revision date 09/23/2019

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** D1453  
**Product Name:** DIMETHYLTIN DICHLORIDE, 99+%

#### Other means of identification

**Synonyms:** Dichlorid dimethylcinicity (Czech)  
 Dichlorodimethylstannane  
 Dichlorodimethyltin  
 Dimethyldichlorostannane  
 Dimethyldichlorotin  
 Dimethylzinndichloride (German)  
 Tin, dimethyl-, dichloride

**CAS #:** 753-73-1  
**RTECS #** WH7245000  
**Cl#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Tom Tyner (USA - West Coast)  
**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

#### Label elements

**Danger**

**Hazard statements**

Toxic if swallowed or in contact with skin  
Fatal if inhaled  
Causes severe skin burns and eye damage  
Causes damage to organs through prolonged or repeated exposure



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves/protective clothing/eye protection/face protection  
Do not breathe dust  
Use only outdoors or in a well-ventilated area  
Wear respiratory protection

**Precautionary Statements - Response**

*Immediately call a POISON CENTER or physician*  
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 or physician.  
Call a POISON CENTER or physician if you feel unwell  
Wash contaminated clothing before reuse  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.  
IF SWALLOWED: Immediately call a POISON CENTER or physician  
Rinse mouth  
Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight-%
-----------	--------	----------

## 4. FIRST AID MEASURES

### First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
- Skin Contact:** Toxic in contact with skin. Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Continue flushing with plenty of water for at least 15 minutes. Immediate medical attention is required. Call a physician or poison control center immediately.
- Eye Contact:** Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
- Ingestion:** Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

### Most important symptoms and effects, both acute and delayed

- Symptoms**
- Causes severe skin burns
  - Causes serious eye damage
  - May cause coughing and shortness of breath
  - May cause nausea and headache
  - Dizziness
  - tiredness
  - Vomiting

### Indication of any immediate medical attention and special treatment needed

- Notes to Physician:** Treat symptomatically.

### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

### Specific hazards arising from the chemical

**Hazardous combustion products**

Carbon monoxide. Carbon dioxide (CO2). hydrogen chloride gas. Metallic oxides.

**Specific hazards**

May be combustible at high temperatures.

**Special Protective Actions for Firefighters**

**Specific Methods:**

No information available

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment**

Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**

Sweep up and shovel. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

**Safe Handling Advice:**

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**

Moisture sensitive. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

**Incompatible Materials:**

Oxidizing agents  
Moisture

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Control parameters

### National occupational exposure limits

#### United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Dimethyltin Dichloride, 99+%	753-73-1	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Dimethyltin Dichloride, 99+%	753-73-1	None	None	None	None

#### Australia and Mexico

Component	CAS No	Australia	Mexico
Dimethyltin Dichloride, 99+%	753-73-1	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

**Eye protection:** Goggles and Face-shield.

**Skin and body protection:** Chemical resistant apron  
Gloves  
Long sleeved clothing

**Respiratory protection:** Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical state:

Solid

#### Appearance:

Crystalline powder.

#### Color:

White to yellowish.

#### Odor:

No information available.

#### Taste

No information available.

#### Formula

C<sub>2</sub>H<sub>6</sub>Cl<sub>2</sub>Sn

#### Molecular/Formula weight (g/mole):

219.68

**Flash Point Tested according to:**  
Not available

**Upper Explosion Limit (%):**  
No information available

**Boiling point/range(°C/°F):**  
180-190°C/ 356-374°F

**Specific gravity:**  
No information available

**Evaporation rate:**  
No information available

**Odor threshold (ppm):**  
No information available

**Miscibility:**  
No information available

**Flammability (solid, gas)**

no data available

**Autoignition Temperature (°C/°F):**  
No information available

**Melting point/range(°C/°F):**  
101-110°C/ 214-230°F

**Bulk density:**  
No information available

**pH**  
No information available

**Vapor density:**  
No information available

**Partition coefficient  
(n-octanol/water):**  
-2.179

**Solubility:**  
Insoluble in water  
Soluble in many organic solvents

**Flashpoint (°C/°F):**

No information available

**Lower Explosion Limit (%):**  
No information available

**Decomposition temperature(°C/°F):**  
No information available

**Density (g/cm3):**  
1.4

**Vapor pressure @ 20°C (kPa):**  
No information available

**VOC content (g/L):**  
No information available

**Viscosity:**  
No information available

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available

### Chemical stability

**Stability:** Moisture Sensitive. Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Exposure to moisture. Ignition sources. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Moisture

**Hazardous decomposition products:** Hydrogen chloride.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Skin. Eyes. Ingestion. Inhalation.

### Acute Toxicity

**Product code:** D1453

**Product name:** DIMETHYLTIN  
DICHLORIDE, 99+%

**Page** 6 / 13

## Component Information

Dimethyltin Dichloride, 99+%	
CAS No	753-73-1

**LD50/oral/rat** = 73900 µg/kg Oral LD50 Rat = 73.9 mg/kg Oral LD50 Rat

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = 404 mg/kg Dermal LD50 Rabbit

**LD50/dermal/rat** = No information available

**LC50/inhalation/rat** = 125 mg/L Inhalation LC50 Rat

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = No information available

## Product Information

**LD50/oral/rat** =

**Value - Acute Toxicity** = 73.9 mg/kg

**LD50/oral/mouse** =

**Value - Acute Tox** = No information available

**LD50/dermal/rabbit**

**Value - Acute Toxicity** = 404 mg/kg

**LD50/dermal/rat**

**VALUE - Acute Tox** = No information available

**LC50/inhalation/rat**

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = 125 mg/L

**LC50/Inhalation/mouse**

**VALUE-Vapor** = No information available

**VALUE - Gas** = No information available

**VALUE - Dust/Mist** = No information available

## Symptoms

**Skin Contact:** Causes skin burns.

**Eye Contact:** Causes serious eye damage.

**Inhalation** May cause irritation of respiratory tract. Symptoms may include coughing and shortness of breath. May cause headache.

**Ingestion** May cause digestive (gastrointestinal) tract irritation. Ingestion may cause nausea, vomiting. May affect behavior/central nervous system (dizziness, drowsiness).

**Aspiration hazard** No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Dimethyltin Dichloride, 99+%	753-73-1	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Dimethyltin Dichloride, 99+% - 753-73-1*

**Fish** LC50: =320mg/L (96h, Pimephales promelas)

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal



Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Dimethyltin Dichloride, 99+%	753-73-1	None	None	None	None

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** UN2928  
**Proper Shipping Name:** Toxic solids, corrosive, organic, n.o.s.  
**Hazard Class** 6.1  
**Subsidiary Class** 8  
**Packing group:** II  
**Emergency Response Guide Number** 154  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** IB6, IP2, T3, TP33  
**Symbol(s):** No information available  
**Description:** UN2928, Toxic solids, corrosive, organic, n.o.s. (Dimethyltin Dichloride, 99+%), 6.1 (8), II

### TDG (Canada)

**UN-No:** UN2928  
**Proper Shipping Name:** Toxic solid, corrosive, organic, n.o.s.  
**Hazard Class** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No Information available  
**Description:** UN2928, Toxic solid, corrosive, organic, n.o.s. (Dimethyltin Dichloride, 99+%), 6.1 (8), II

### ADR

**UN Number** UN2928  
**Proper Shipping Name:** Toxic solid, corrosive, organic, n.o.s.  
**Transport hazard class(es)** 6.1  
**Packing group** II  
**Subsidiary Risk:** No information available  
**Special Provisions** 274  
**Description:** UN2928, Toxic solid, corrosive, organic, n.o.s. (Dimethyltin Dichloride, 99+%), 6.1 (8), II

### IMDG

**UN-No:** UN2928  
**Proper Shipping Name:** Toxic solids, corrosive, organic, n.o.s.  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Marine Pollutant** No information available  
**EMS:** F-A  
**Special Provisions** 274  
**Description** UN2928, Toxic solid, corrosive, organic, n.o.s. (Dimethyltin Dichloride, 99+%), 6.1 (8), II

### RID

**UN Number** UN2928  
**Proper Shipping Name:** Toxic solid, corrosive, organic, n.o.s.  
**Transport hazard class(es)** 6.1

**Subsidiary Risk:** No information available  
**Packing group** II  
**Special Provisions** 274  
**Description:** UN2928, Toxic solid, corrosive, organic, n.o.s. (Dimethyltin Dichloride, 99+%), 6.1 (8), II

**ICAO (air)**

**UN-No:** UN2928  
**Proper Shipping Name:** Toxic solid, corrosive, organic, n.o.s.  
**Hazard Class** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** UN2928, Toxic solid, corrosive, organic, n.o.s. (Dimethyltin Dichloride, 99+%), 6.1 (8), II  
**Special Provisions** A5

**IATA**

**UN Number** UN2928  
**Proper Shipping Name:** Toxic solid, corrosive, organic, n.o.s.  
**Transport hazard class(es)** 6.1  
**Subsidiary Risk:** No information available  
**Packing group** II  
**Precautionary Statements - Response** 6C  
**Special Provisions** No information available  
**Description:** UN2928, Toxic solid, corrosive, organic, n.o.s. (Dimethyltin Dichloride, 99+%), 6.1 (8), II

**15. REGULATORY INFORMATION**

**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Dimethyltin Dichloride, 99+%	753-73-1	PresentACTIV E	Present KE-10117	Present	Present (2)-2247	Present	Present	Present 212-039-2

**U.S. Regulations**

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Dimethyltin Dichloride, 99+%	753-73-1	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis

Dimethyltin Dichloride, 99+%	753-73-1	None	None	None	None	None
------------------------------	----------	------	------	------	------	------

### U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Dimethyltin Dichloride, 99+%	753-73-1	Not Applicable	Not Applicable

### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

**Canada Hazardous Products Regulation** This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Dimethyltin Dichloride, 99+%	753-73-1	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Dimethyltin Dichloride, 99+%	753-73-1	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Dimethyltin Dichloride, 99+%	753-73-1	Not listed

### EU Classification

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Dimethyltin Dichloride, 99+%	753-73-1	Acute toxicity - Oral - Acute Tox. 3: H301 Toxic if swallowed.; Acute toxicity - Dermal - Acute Tox. 3: H311 Toxic in contact with skin.; Acute toxicity - Inhalation - Acute Tox. 2: H330 Fatal if inhaled.; Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage.; Reproductive Toxicity - Repr. 2: H361d Suspected of damaging the unborn child.; Specific target organ toxicity - Repeated exposure - STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure. (Nervous System, Immune system); Supplemental Hazards - EUH071 Corrosive to the respiratory tract. (Immune system, Nervous System)050-029-00-8

EU - CLP (1272/2008)

**R-phrase(s)**

R48 - Danger of serious damage to health by prolonged exposure  
R34 - Causes burns  
R24 - Toxic in contact with skin  
R25 - Toxic if swallowed  
R26 - Very toxic by inhalation

**S -phrase(s)**

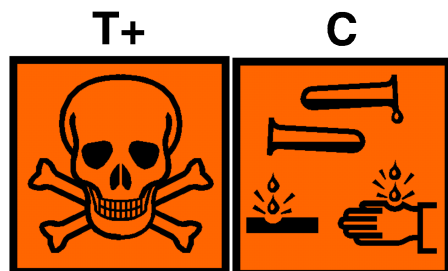
S 7 - Keep container tightly closed.  
S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
S36 - Wear suitable protective clothing  
S38 - In case of insufficient ventilation, wear suitable respiratory equipment

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Dimethyltin Dichloride, 99+%	753-73-1	Repr.Cat.3; R63 T+; R26 T; R24/25-48/25 C; R34	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

T+ - Very toxic  
C - Corrosive



**16. OTHER INFORMATION**

Preparation Date: 09/23/2019  
Revision date: 09/23/2019  
Prepared by: Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against

infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**