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

## 1.1. Product identifier

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Substance</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Substance name</td>
<td>DI-n-PROPYLDICHLOROTIN</td>
</tr>
<tr>
<td>Product code</td>
<td>SND4592</td>
</tr>
<tr>
<td>Formula</td>
<td>C6H14Cl2Sn</td>
</tr>
<tr>
<td>Synonyms</td>
<td>DIPROPYLTINDICHLORIDE; DIPROPYLDICHLOROSTANNANE</td>
</tr>
<tr>
<td>Chemical family</td>
<td>ORGANOTIN</td>
</tr>
</tbody>
</table>

## 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 2**: H300
- **Skin corrosion/irritation, Category 2**: H315
- **Serious eye damage/eye irritation, Category 2**: H319

Full text of H statements: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

## 2.2. Label elements

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

- **Hazard pictograms (CLP)**:  
  ![Pictogram]

- **Signal word (CLP)**: Danger
- **Hazard statements (CLP)**:  
  - H300 - Fatal if swallowed.  
  - H315 - Causes skin irritation.  
  - H319 - Causes serious eye irritation.
DI-n-PROPYLDICHLOROTIN
Safety Data Sheet

Precautionary statements (CLP)

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P330 - Rinse mouth.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER.
P501 - Dispose of contents/container to licensed waste disposal facility.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type: Mono-constituent
Name: DI-n-PROPYLDICHLOROTIN
CAS-No.: 867-36-7

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di-n-propyldichlorotin</td>
<td>(CAS-No.) 867-36-7</td>
<td>95 - 100</td>
<td>Acute Tox. 2 (Oral), H300 Skin Irrit. 2, H315 Eye Irrit. 2, H319</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

3.2. Mixtures
Not applicable

SECTION 4: First aid measures

4.1. 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. If you feel unwell, seek medical advice.

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

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact: Causes skin irritation. Organotins may be absorbed through the skin.
Symptoms/effects after eye contact: Causes serious eye irritation.
Symptoms/effects after ingestion: Fatal if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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

Note to physician: Application of corticosteroid creams has been effective in treating severe skin irritation. If blisters develop, they may require abrasion to promote healing.

SECTION 5: Firefighting measures

5.1. Extinguishing media


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

Firefighting instructions: Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. 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: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: 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.
Storage area: Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

**Di-n-propyldichlorotin (867-36-7)**

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>ACGIH TWA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italy - Portugal - USA ACGIH</td>
<td>0.1 mg/m³ as tin</td>
</tr>
</tbody>
</table>

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. 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 combination organic vapor/acid gas (yellow cartridge) respirator.
### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Crystals.</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>275.77 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>White.</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>No additional information available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>82 - 83 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>120 - 110 °C @ 10 mm Hg</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 110 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt; 0.1 mm Hg @ 25°C</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Relative density</td>
<td>&gt; 1.4</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Direct sunlight causes slow degradation to an inorganic tin salt.

#### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

#### 10.5. Incompatible materials


#### 10.6. Hazardous decomposition products

Organic acid vapors. Tin oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**: Fatal if swallowed.

**Di-n-PROPYLDICHLOROTIN (867-36-7)**

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE CLP (oral)</td>
<td>5 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

**Di-n-propyldichlorotin (867-36-7)**

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDLo oral rat</td>
<td>160 mg/kg</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>5 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Causes skin irritation.

**Serious eye damage/irritation**: Causes serious eye irritation.
### DI-n-PROPYLDICHLOROTIN
#### Safety Data Sheet

| Respiratory or skin sensitisation | Not classified |
| Germ cell mutagenicity            | Not classified |
| Carcinogenicity                   | Not classified |
| Reproductive toxicity             | Not classified |
| 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 skin irritation. Organotins may be absorbed through the skin. |
| Symptoms/effects after eye contact | Causes serious eye irritation. |
| Symptoms/effects after ingestion | Fatal if swallowed. Swallowing a small quantity of this material will result in serious health hazard. |
| Reason for classification         | Expert judgment |

#### SECTION 12: Ecological information

**12.1. Toxicity**

- Acute aquatic toxicity: Not classified
- Chronic aquatic toxicity: 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.

#### SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

- Sewage disposal recommendations: Do not dispose of waste into sewer.
- Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
- Ecology - waste materials: Avoid release to the environment.

#### SECTION 14: Transport information

**14.1. UN number**

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

**14.1. UN number**

- UN-No. (ADR)       : 3146
- UN-No. (IMDG)      : 3146
- UN-No. (IATA)      : 3146
- UN-No. (ADN)       : 3146
- UN-No. (RID)       : 3146

**14.2. UN proper shipping name**

- Proper Shipping Name (ADR): ORGANOTIN COMPOUND, SOLID, N.O.S.
- Proper Shipping Name (IMDG): ORGANOTIN COMPOUND, SOLID, N.O.S.
- Proper Shipping Name (IATA): Organotin compound, solid, n.o.s.
- Proper Shipping Name (ADN): ORGANOTIN COMPOUND, SOLID, N.O.S.
- Proper Shipping Name (RID): ORGANOTIN COMPOUND, SOLID, N.O.S.
- Transport document description (ADR): UN 3146 ORGANOTIN COMPOUND, SOLID, N.O.S. (DI-n-PROPYLDICHLOROTIN), 6.1, II, (D/E)
- Transport document description (IMDG): UN 3146 ORGANOTIN COMPOUND, SOLID, N.O.S. (DI-n-PROPYLDICHLOROTIN), 6.1, II, MARINE POLLUTANT
DI-n-PROPYLDICHLOROTIN
Safety Data Sheet

Transport document description (IATA): UN 3146 Organotin compound, solid, n.o.s. (DI-n-PROPYLDICHLOROTIN), 6.1, II
Transport document description (ADN): UN 3146 ORGANOTIN COMPOUND, SOLID, N.O.S. (DI-n-PROPYLDICHLOROTIN), 6.1, II
Transport document description (RID): UN 3146 ORGANOTIN COMPOUND, SOLID, N.O.S. (DI-n-PROPYLDICHLOROTIN), 6.1, II

## 14.3. Transport hazard class(es)

### ADR
Transport hazard class(es) (ADR): 6.1
Danger labels (ADR): 6.1

### IMDG
Transport hazard class(es) (IMDG): 6.1
Danger labels (IMDG): 6.1

### IATA
Transport hazard class(es) (IATA): 6.1
Hazard labels (IATA): 6.1

### ADN
Transport hazard class(es) (ADN): 6.1
Danger labels (ADN): 6.1

### RID
Transport hazard class(es) (RID): 6.1
Danger labels (RID): 6.1

## 14.4. Packing group

Packing group (ADR): II
Packing group (IMDG): II
Packing group (IATA): II
Packing group (ADN): II
Packing group (RID): II
### 14.5. Environmental hazards

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous for the environment</td>
<td>No</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>Yes (IMDG only)</td>
</tr>
<tr>
<td>Other information</td>
<td>No supplementary information available</td>
</tr>
</tbody>
</table>

### 14.6. Special precautions for user

#### - Overland transport

- **Classification code (ADR)**: T3
- **Special provisions (ADR)**: 43, 274
- **Limited quantities (ADR)**: 500g
- **Excepted quantities (ADR)**: E4
- **Packing instructions (ADR)**: P002, IBC08
- **Special packing provisions (ADR)**: B3
- **Mixed packing provisions (ADR)**: MP10
- **Portable tank and bulk container instructions (ADR)**: T3
- **Portable tank and bulk container special provisions (ADR)**: TP33
- **Tank code (ADR)**: SGAH, L4BH
- **Tank special provisions (ADR)**: TU15, TE19
- **Vehicle for tank carriage**: AT
- **Transport category (ADR)**: 2
- **Special provisions for carriage - Packages (ADR)**: V11
- **Special provisions for carriage - Loading, unloading and handling (ADR)**: CV13, CV28
- **Special provisions for carriage - Operation (ADR)**: S9, S19
- **Hazard identification number (Kemler No.)**: 60
- **Orange plates**: 60-3146
- **Tunnel restriction code (ADR)**: D/E
- **EAC code**: 2X

#### - Transport by sea

- **Special provisions (IMDG)**: 43, 274
- **Limited quantities (IMDG)**: 500 g
- **Excepted quantities (IMDG)**: E4
- **Packing instructions (IMDG)**: P002
- **IBC packing instructions (IMDG)**: IBC08
- **IBC special provisions (IMDG)**: B2, B4
- **Tank instructions (IMDG)**: T3
- **Tank special provisions (IMDG)**: TP33
- **EmS-No. (Fire)**: F-A
- **EmS-No. (Spillage)**: S-A
- **Stowage category (IMDG)**: A
- **Stowage and handling (IMDG)**: SW2
- **Properties and observations (IMDG)**: A wide variety of toxic solids. Toxic if swallowed, by skin contact or by inhalation.

#### - Air transport

- **PCA Excepted quantities (IATA)**: E4
- **PCA Limited quantities (IATA)**: Y644
- **PCA limited quantity max net quantity (IATA)**: 1kg
- **PCA packing instructions (IATA)**: 669
- **PCA max net quantity (IATA)**: 25kg
- **CAO packing instructions (IATA)**: 676
- **CAO max net quantity (IATA)**: 100kg
**DI-n-PROPYLDICHLOROTIN**  
Safety Data Sheet

### Special provisions (IATA)
- A3, A4, A6
- 6L

### Inland waterway transport
- Classification code (ADN): T3
- Special provisions (ADN): 43, 274, 802
- Limited quantities (ADN): 500 g
- Excepted quantities (ADN): E4
- Equipment required (ADN): PP, EP
- Number of blue cones/lights (ADN): 2

### Rail transport
- Classification code (RID): T3
- Special provisions (RID): 43, 274
- Limited quantities (RID): 500g
- Excepted quantities (RID): E4
- Packing instructions (RID): P002, IBC08
- Special packing provisions (RID): B4
- Mixed packing provisions (RID): MP10
- Portable tank and bulk container instructions (RID): T3
- Portable tank and bulk container special provisions (RID): TP33
- Tank codes for RID tanks (RID): SGAH, L4BH
- Special provisions for RID tanks (RID): TU15
- Transport category (RID): 2
- Special provisions for carriage – Packages (RID): W11
- Special provisions for carriage - Loading, unloading and handling (RID): CW13, CW28, CW31
- Colis express (express parcels) (RID): CE9
- Hazard identification number (RID): 60

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

### 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
- DI-n-PROPYLDICHLOROTIN is not on the REACH Candidate List
- DI-n-PROPYLDICHLOROTIN is not on the REACH Annex XIV List
- DI-n-PROPYLDICHLOROTIN 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.

**15.1.2. National regulations**

**Germany**

**Netherlands**
- SZW-lijst van kankerverwekkende stoffen: The substance is not listed
- SZW-lijst van mutagene stoffen: The substance is not listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: The substance is not listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: The substance is not listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: The substance is not listed
### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

#### Abbreviations and acronyms:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ND</td>
<td>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.: Chemical 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</td>
</tr>
</tbody>
</table>

#### Other information:

Prepared by safety and environmental affairs.

#### Full text of H- and EUH-statements:

- **Acute Tox. 2 (Oral)**: Acute toxicity (oral), Category 2
- **Eye Irrit. 2**: Serious eye damage/eye irritation, Category 2
- **Skin Irrit. 2**: Skin corrosion/irritation, Category 2
- **H300**: Fatal if swallowed.
- **H315**: Causes skin irritation.
- **H319**: Causes serious eye irritation.

---

**SDS EU (REACH Annex II) - Custom**

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.

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