

# SAFETY DATA SHEET

Revision Date 19-Dec-2025

## Revision Number 6

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

## 1. Identification

|                             |  |
|-----------------------------|--|
| <b>Product Name</b>         | Tri-n-butylin methoxide                            |
| <b>Cat No. :</b>            | AC212090000; AC212090100; AC212090250; AC212091000 |
| <b>CAS No</b>               | 1067-52-3  |
| <b>Synonyms</b>             | No information available                           |
| <b>Recommended Use</b>      | Laboratory chemicals.                              |
| <b>Uses advised against</b> | Food, drug, pesticide or biocidal product use.     |

## **Details of the supplier of the safety data sheet**

## Company

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## Classification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024).

|  |            |
|--|------------|
| Acute oral toxicity                                  | Category 3 |
| Acute dermal toxicity                                | Category 4 |
| Skin Corrosion/Irritation                            | Category 2 |
| Serious Eye Damage/Eye Irritation                    | Category 2 |
| Specific target organ toxicity - (repeated exposure) | Category 1 |
| Target Organs - Cardiovascular system, Blood.        |            |

## Label Elements

## Signal Word

Danger

**Hazard Statements**

Toxic if swallowed  
Harmful in contact with skin  
Causes skin irritation  
Causes serious eye irritation  
Causes damage to organs through prolonged or repeated exposure

**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/fume/gas/mist/vapors/spray

**Response**

Get medical attention/advice if you feel unwell

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
Call a POISON CENTER or doctor if you feel unwell  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor  
Rinse mouth

**Storage**

Store locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Very toxic to aquatic life with long lasting effects

**Hazards classified under paragraph (d)(1)(ii) of 1910.1200**

No information available

### 3. Composition/information on Ingredients

| Component                  | CAS No    | Weight % |
|----------------------------|-----------|----------|
| Tri-n-butyltin methanolate | 1067-52-3 | <=100    |

### 4. First-aid measures

**Eye Contact**

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

|  |  |
|--|--|
| <b>Inhalation</b>                          | Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required. |
| <b>Ingestion</b>                           | Call a physician immediately. Clean mouth with water.  |
| <b>Most important symptoms and effects</b> | Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting                                 |
| <b>Notes to Physician</b>                  | Treat symptomatically  |

## 5. Fire-fighting measures

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

**Unsuitable Extinguishing Media** No information available

**Flash Point** 98 °C / 208.4 °F

**Method -** No information available

**Autoignition Temperature** No information available  
**Explosion Limits**

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical**

Flammable. Do not allow run-off from fire-fighting to enter drains or water courses.

**Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Metal oxides.

**Protective Equipment and Precautions for Firefighters**

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

**NFPA**

**Health**  
3

**Flammability**  
0

**Instability**  
0

**Physical hazards**  
N/A

## 6. Accidental release measures

**Personal Precautions**

**Environmental Precautions**

Ensure adequate ventilation. Use personal protective equipment as required.

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

**Methods for Containment and Clean Up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

**Handling**

Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Handle product only in closed system or provide appropriate exhaust ventilation.

**Storage.**

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Keep under nitrogen. Incompatible Materials. Strong oxidizing agents. Strong acids.

## 8. Exposure controls / personal protection

### Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Component                  | ACGIH TLV   | OSHA PEL                                     | NIOSH   | Mexico OEL (TWA)  |
|----------------------------|---|--|---|---|
| Tri-n-butyltin methanolate | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.2 mg/m <sup>3</sup><br>Skin | (Vacated) TWA: 0.1 mg/m <sup>3</sup><br>Skin | IDLH: 25 mg/m <sup>3</sup><br>REL = 0.1 mg/m <sup>3</sup> (TWA) | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.2 mg/m <sup>3</sup> |

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal Protective Equipment

#### Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Recommended Filter type:

Organic gases and vapours filter. Type A. Brown. conforming to EN14387.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Appearance

#### Physical State

Liquid

#### Color

Colorless

#### Odor

No information available

#### Odor Threshold

No information available

#### Property

#### Values

#### Remarks

#### • Method

#### Melting Point/Range

No data available

#### Softening Point

No data available

#### Boiling Point/Range

97 - 98 °C / 206.6 - 207.5 °F

#### Flash Point

98 °C / 208.4 °F

**Method** - No information available

#### Flammability (liquid)

No data available

#### Flammability (solid,gas)

Not applicable

Liquid

#### Explosion Limits

No data available

#### Autoignition Temperature

No data available

#### Decomposition Temperature

No data available

#### pH

No information available

#### Viscosity

No data available

#### Water Solubility

No information available

#### Solubility in other solvents

No information available

#### Partition Coefficient (n-octanol/water)

|                                   |                       |
|-----------------------------------|-----------------------|
| <b>Vapor Pressure</b>             | No data available     |
| <b>Density / Specific Gravity</b> | 1.110                 |
| <b>Bulk Density</b>               | Not applicable        |
| <b>Vapor Density</b>              | 11.07                 |
| <b>Particle characteristics</b>   | Liquid<br>(Air = 1.0) |

**Other Information**

|                          |              |
|--------------------------|--------------|
| <b>Molecular Formula</b> | C13 H30 O Sn |
| <b>Molecular Weight</b>  | 321.07       |

**10. Stability and reactivity**

|   |   |
|---|---|
| <b>Reactive Hazard</b>                  | None known, based on information available                            |
| <b>Stability</b>                        | Moisture sensitive.   |
| <b>Conditions to Avoid</b>              | Incompatible products. Exposure to moist air or water.                |
| <b>Incompatible Materials</b>           | Strong oxidizing agents, Strong acids                                 |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Metal oxides |
| <b>Hazardous Polymerization</b>         | No information available.   |
| <b>Hazardous Reactions</b>              | None under normal processing.   |

**11. Toxicological information****Information on expected route of exposure**

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | Not an expected route of exposure.   |
| <b>Ingestion</b>  | May be harmful if swallowed.   |
| <b>Eyes</b>       | Avoid contact with eyes. Irritating to eyes.                                 |
| <b>Skin</b>       | Avoid contact with skin. May cause irritation. Harmful in contact with skin. |

**Toxicology data for the components**

|   |                          |
|---|--------------------------|
| <b>Toxicologically Synergistic Products</b> | No information available |
|---|--------------------------|

**(b) skin corrosion/irritation;** Category 2

**(c) serious eye damage/irritation;** Category 2

|   |                   |
|---|-------------------|
| <b>(d) respiratory or skin sensitization;</b> | No data available |
| <b>Respiratory</b>                            | No data available |
| <b>Skin</b>                                   | No data available |

**(e) germ cell mutagenicity;** No data available

**(f) carcinogenicity;**

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component      | CAS No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|----------------|-----------|------------|------------|------------|------------|------------|
| Tri-n-butyltin | 1067-52-3 | Not listed |

|             |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|
| methanolate |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|

**(g) reproductive toxicity;** No data available

**(h) STOT-single exposure;** No data available

**(i) STOT-repeated exposure;** Category 1

**Target Organs** Cardiovascular system, Blood.

**(j) aspiration hazard;** No data available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Symptoms / effects,both acute and delayed** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Endocrine Disrupting Properties** This product does not contain any known or suspected endocrine disruptors.

| Component                  | EU - Endocrine Disrupters Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|----------------------------|--|--|---|
| Tri-n-butyltin methanolate | Not applicable                           | High Exposure Concern                            | Not applicable                          |

## 12. Ecological information

### Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

**Persistence and Degradability** May persist

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

## 13. Disposal considerations

**Waste Disposal Methods** 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.

## 14. Transport information

### DOT

**UN-No** UN2788  
**Proper Shipping Name** ORGANOTIN COMPOUNDS, LIQUID, N.O.S.  
**Hazard Class** 6.1  
**Packing Group** II

### TDG

**UN-No** UN2788  
**Proper Shipping Name** Organotin compound, liquid, n.o.s.  
**Hazard Class** 6.1  
**Packing Group** II

### IATA

|                             |                                    |
|-----------------------------|------------------------------------|
| <b>UN-No</b>                | UN2788                             |
| <b>Proper Shipping Name</b> | Organotin compound, liquid, n.o.s. |
| <b>Hazard Class</b>         | 6.1                                |
| <b>Packing Group</b>        | II                                 |
| <b>IMDG/IMO</b>             |                                    |
| <b>UN-No</b>                | UN2788                             |
| <b>Proper Shipping Name</b> | Organotin compound, liquid, n.o.s. |
| <b>Hazard Class</b>         | 6.1                                |
| <b>Packing Group</b>        | II                                 |

## 15. Regulatory Information

### United States of America Inventory

| Component                  | CAS No    | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|----------------------------|-----------|------|---|-----------------------------|
| Tri-n-butyltin methanolate | 1067-52-3 | -    | -   | -                           |

#### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

**TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)** Not applicable

**TSCA 12(b) - Notices of Export** Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component                  | CAS No    | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|----------------------------|-----------|-----|------|-----------|-------|------|------|------|-------|------|
| Tri-n-butyltin methanolate | 1067-52-3 | -   | -    | 213-933-5 | -     | -    | X    | -    | -     | -    |

**KECL** - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)** Not applicable

**Clean Air Act** Not applicable

**OSHA - Occupational Safety and Health Administration** Not applicable

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know  
Regulations**

Not applicable

| Component                  | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------------------|---------------|------------|--------------|----------|--------------|
| Tri-n-butyltin methanolate | -             | -          | -            | -        | X            |

**U.S. Department of Transportation**

Reportable Quantity (RQ): N  
 DOT Marine Pollutant N  
 DOT Severe Marine Pollutant N

**U.S. Department of Homeland  
Security**

This product does not contain any DHS chemicals.

**Other International Regulations****Mexico - Grade**

No information available

**Authorisation/Restrictions according to EU REACH**

| Component                  | CAS No    | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances   | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|----------------------------|-----------|---|---|---|
| Tri-n-butyltin methanolate | 1067-52-3 | -   | Use restricted. See entry 20.<br>(see link for restriction details)<br>Use restricted. See entry 30.<br>(see link for restriction details)<br>Use restricted. See entry 75.<br>(see link for restriction details) | -   |

**REACH links**<https://echa.europa.eu/substances-restricted-under-reach>**Safety, health and environmental regulations/legislation specific for the substance or mixture**

| Component                  | CAS No    | OECD HPV       | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|----------------------------|-----------|----------------|------------------------------|---------------------------|--|
| Tri-n-butyltin methanolate | 1067-52-3 | Not applicable | Not applicable               | Not applicable            | Not applicable                             |

**Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?**

Not applicable

**Other International Regulations**

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities | Seveso III Directive (2012/18/EC) - Qualifying Quantities | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|-----------|--------|---|---|----------------------------|------------------------------------|
|           |        |   |   |                            |                                    |

|                            |           | for Major Accident<br>Notification | for Safety Report<br>Requirements |   |                |
|----------------------------|-----------|------------------------------------|-----------------------------------|---|----------------|
| Tri-n-butyltin methanolate | 1067-52-3 | Not applicable                     | Not applicable                    | X | Not applicable |

## 16. Other Information

|                  |   |
|------------------|---|
| Prepared By      | Product stewardship (Regulatory Affairs)<br>Thermo Fisher Scientific<br>email - begel.sdsdesk@thermofisher.com  |
| Revision Date    | 19-Dec-2025   |
| Print Date       | 19-Dec-2025   |
| Revision Summary | Updated to the U.S. Department of Labor's Occupational Safety and Health Administration (OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200, 2024), May 20, 2024, effective July 19, 2024. |

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**