



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Trimethyltin chloride: sc-301942



The Power to Question

MATERIAL SAFETY DATA SHEET

1 Identification of substance:

Product Name: Trimethyltin chloride
Catalog Number: sc-301942
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

2 Hazards identification

Classification of the substance or mixture



GHS06 Skull and crossbones

H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H330 Fatal if inhaled.



GHS09 Environment

H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



T+; Very toxic

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.



N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Labelling according to EU guidelines:

Code letter and hazard designation of product:

T+ Very toxic
N Dangerous for the environment

Risk phrases:

26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
45 In case of accident or if you feel unwell, seek medical advice immediately.
60 This material and its container must be disposed of as hazardous waste.
61 Avoid release to the environment. Refer to special instructions/Safety data sheets

Hazard description:

WHMIS classification



Classification system
HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)

| | | |
|------------|---|----------------------------|
| HEALTH | 3 | Health (acute effects) = 3 |
| FIRE | 1 | Flammability = 1 |
| REACTIVITY | 2 | Reactivity = 2 |

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

(CAS#) Description:

Trimethyltin chloride (CAS# 1066-45-1)

Identification number(s):

EINECS Number: 213-917-8

Index number: 050-005-00-7

4 First aid measures

Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing has been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

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

Do not induce vomiting; immediately call for medical help.

Seek immediate medical advice.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Hydrogen chloride (HCl)

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 material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling

Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

Open and handle container with care.

Information about protection against explosions and fires: No special measures required.

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 water/moisture.

Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed. Store at 4° C.

Store in cool, dry 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:

Tin, organic compounds, as Sn

mg/m3

| | |
|-------------------|--|
| ACGIH TLV | 0.1; 0.2-STEL (skin) Not classifiable as a human carcinogen |
| Austria MAK | 0.1 (skin) |
| Belgium TWA | 0.1 (skin) |
| Denmark TWA | 0.1 (skin) |
| Finland TWA | 0.1; 0.3-STEL (skin) |
| France VME | 0.1 |
| Germany MAK | 0.1 (skin) |
| Hungary | 0.1-STEL (skin) |
| Korea TLV | 0.1; 0.2-STEL (skin) |
| Norway TWA | 0.1 |
| Switzerland MAK-W | 0.1; 0.2-KZG-W (skin) |
| United Kingdom | 0.1; 0.2-STEL (skin) |
| USA PEL | 0.1 |

Additional information: No data

Exposure controls

Personal 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 soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Breathing equipment: Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

| | |
|-----------------|--------------------------------------|
| Form: | Crystalline |
| Formula: | (CH ₃) ₃ SnCl |
| Weight: | 199.27 |

pH-value: Not applicable.

Change in condition

| | |
|---|----------------|
| Melting point/Melting range: | 37°C (99 °F) |
| Boiling point/Boiling range: | 154°C (309 °F) |
| Sublimation temperature / start: | Not determined |

Flash point: 62°C (144 °F)

Flammability (solid, gaseous) Not determined.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

| | |
|---------------|----------------|
| Lower: | Not determined |
| Upper: | Not determined |

Vapor pressure: Not applicable.

| | |
|---|--|
| Density: | Not determined |
| Relative density | Not determined. |
| Vapour density | Not applicable. |
| Evaporation rate | Not applicable. |
| Solubility in / Miscibility with Water: | Hydrolyzes slowly |
| Segregation coefficient (n-octanol/water): | Not determined. |
| Viscosity: | |
| dynamic: | Not applicable. |
| kinematic: | Not applicable. |
| Other information | No further relevant information available. |

10 Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions No dangerous reactions known

Incompatible materials:

Water/moisture

Oxidizing agents

Hazardous decomposition products:

Hydrogen chloride (HCl)

Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

| LD/LC50 values that are relevant for classification: | | |
|--|------|-------------------|
| Oral | LD50 | 12600 µg/kg (rat) |
| | LDLo | 3 mg/kg (grb) |
| | | 3 mg/kg (ham) |
| | | 3 mg/kg (monkey) |

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Other information (about experimental toxicology):

Mutagenic effects have been observed on tests with bacteria.

Reproductive effects have been observed on tests with laboratory animals.

Subacute to chronic toxicity:

Organic tin compounds are generally more toxic than inorganic tin. Exposure may result in brain and central nervous system swelling, muscle weakness, paralysis, respiratory failure, neurological disturbances, liver damage, urinary tract injury and blood injury. Excessive exposure may be fatal.

The chloride ion generally has a very low toxicity.

Additional toxicological information:

Danger through skin absorption.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

12 Ecological information

Toxicity

Acquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark: Very toxic for aquatic organisms

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Do not allow material to be released to the environment without proper governmental permits.

Very toxic for aquatic organisms

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

DOT regulations:



Hazard class: 6.1
Identification number: UN3146
Packing group: II
Proper shipping name (technical name): ORGANOTIN COMPOUND, SOLID, N.O.S. (Trimethyltin chloride)
Label: 6.1

Land transport ADR/RID (cross-border)



ADR/RID class: 6.1 (T3) Toxic substances
Danger code (Kemler): 60
UN-Number: 3146
Packaging group: II
Special marking: Symbol (fish and tree)
UN proper shipping name: 3146 ORGANOTIN COMPOUND, SOLID, N.O.S. (Trimethyltin chloride)

Maritime transport IMDG:



IMDG Class: 6.1
UN Number: 3146
Label: 6.1
Packaging group: II
Marine pollutant: No
Proper shipping name: ORGANOTIN COMPOUND, SOLID, N.O.S. (Trimethyltin chloride)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 6.1
UN/ID Number: 3146
Label: 6.1
Packaging group: II
Proper shipping name: ORGANOTIN COMPOUND, SOLID, N.O.S. (Trimethyltin chloride)

UN "Model Regulation": UN3146, ORGANOTIN COMPOUND, SOLID, N.O.S., 6.1, II

Environmental hazards: Environmentally hazardous substance, solid; Marine Pollutant

Special precautions for user Warning: Toxic substances

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

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

Product related hazard informations:

Hazard symbols:

T+ Very toxic

N Dangerous for the environment

Risk phrases:

26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

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National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

Information about limitation of use: For use only by technically qualified individuals.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information:

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

8/22/2012