INTATRADE
MATERIAL SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

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1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name:	**Tetramethyltin**
Product code:	EO00948
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008	GHS02 flame Flam. Liq. 2 H225 Highly flammable liquid and vapour. GHS06 skull and crossbones Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin. Acute Tox. 2 H330 Fatal if inhaled.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC	T; Toxic R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. F; Highly flammable R11: Highly flammable.

Label elements

Labelling according to Regulation (EC) No 1272/2008	The substance is classified and labelled according to the CLP regulation.
Hazard pictograms	GHS02 GHS06
Signal word	**Danger**
Hazard statements	H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H330 Fatal if inhaled.
Precautionary statements	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P320 Specific treatment is urgent. P361 Remove/Take off immediately all contaminated clothing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.:	594-27-4
EC-No.:	209-833-6

4. FIRST AID MEASURES

General information	Instantly remove any clothing soiled by the product. Remove breathing apparatus only after soiled 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. Consult doctor if symptoms persist. Seek immediate medical advice.
After skin contact	Instantly 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 doctor.
After swallowing	Do not induce vomiting; instantly call for medical help. Seek immediate medical advice.

5. FIREFIGHTING MEASURES

Suitable extinguishing agents	Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers.
Advice for firefighters	Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources
Environmental precautions:	Do not allow material to be released to the environment without proper governmental permits.
Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Keep away from ignition sources.
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 information on disposal.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by

Information about storage in one common storage facility:	Store away from oxidizing agents.
Further information about storage conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants.

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 critical values that require monitoring at the workplace:

Tin, organic compounds, as Sn	mg/m^3
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 should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Store protective clothing separately. Avoid contact with the eyes and skin.
Breathing equipment:	Use breathing protection with high concentrations.
Eye protection:	Safety glasses Face protection
Body protection:	Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Form:	Liquid
Colour:	Colourless
Smell:	Unpleasant
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-54°C
Boiling point/Boiling range:	74-75°C
Sublimation temperature / start:	Not determined
Flash point:	-12°C
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined

Critical values for explosion:	
Lower:	1.9 Vol %
Upper:	Not determined
Steam pressure:	Not determined
Density at 20°C	1.291 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
Segregation coefficient	
(n-octanol/water):	Not determined.
Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
Other information	No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity	Chemical stability
Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
Possibility of hazardous reactions	Reacts with strong oxidizing agents
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	Carbon monoxide and carbon dioxide Toxic metal oxide smoke

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Acute toxicity:	
Primary irritant effect:	
on the skin:	Irritant for skin and mucous membranes.
on the eye:	Irritant effect.
Sensitization:	No sensitizing effect known.
Additional toxicological information:	Danger by skin resorption. 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.
Behaviour in environmental systems:	
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Additional ecological information:	
General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.
Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.
Uncleaned packagings:	
Recommendation:	Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class:	3 (FT1) Flammable liquids.
Kemler Number:	336
UN-Number:	1992
Packaging group:	II
Label	3+6.1
UN proper shipping name:	1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Tetramethyltin)
Limited quantities (LQ)	LQ0
Transport category	2
Tunnel restriction code	D/E
Maritime transport IMDG/GGVSea:	
IMDG/GGVSea Class:	3
UN Number:	1992
Label	3+6.1
Packaging group:	II
EMS Number:	F-E,S-D
Marine pollutant:	No
Correct technical name:	FLAMMABLE LIQUID, TOXIC, N.O.S. (Tetramethyltin)
Air transport ICAO-TI and IATA-DGR:	
ICAO/IATA Class:	3
UN/ID Number:	1992
Label	3+6.1
Packaging group:	II
Correct technical name:	FLAMMABLE LIQUID, TOXIC, N.O.S. (Tetramethyltin)
UN "Model Regulation":	UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II
Special precautions for user	Warning: Flammable liquids.
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

Labelling according to Regulation (EC) No 1272/2008	The substance is classified and labelled according to the CLP regulation.
Hazard pictograms	GHS02 GHS06
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H330 Fatal if inhaled.
Precautionary statements	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P320 Specific treatment is urgent. P361 Remove/Take off immediately all contaminated clothing. P405 Store locked up.

National regulations

Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION:

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.