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Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 14.07.2010 Revision: 14 07 2010

1 Identification of substance

Product details

Trade name Tetramethyltin

Stock number:

71145

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG Benzstrasse 3

D-76185 Karlsruhe / Germany

Informing department: Emergency information:

Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

2 Hazards identification

Hazard designation:

T Toxic

F Highly flammable

Information pertaining to particular dangers for man and environment

GHS label elements

Response:

R 11 Highly flammable. R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

Danger

H225 - Highly flammable liquid and vapour.

Danger

H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H330 - Fatal if inhaled.
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

water/shower.
Specific treatment is urgent (see on this label).
Remove/Take off immediately all contaminated clothing. P320 P361 Re P405 Store locked up.

Storage:

Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization:

Designation: (CAS#)
Identification number(s): Tetramethyltin (CAS# 594-27-4); 100%

EINECS Number: 209-833-6

4 First aid measures

After skin contact

General information

After inhalation

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.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Seek immediate medical advice.

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

Rinse opened eye for several minutes under running water. Then consult doctor. Do not induce vomiting; instantly call for medical help. Seek immediate medical advice. After eye contact After swallowing

5 Fire fighting measures

Suitable extinguishing agents

Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed

containers.
Wear self-contained breathing apparatus. Protective equipment: Wear full protective suit.

6 Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Measures for environmental protection: Measures for cleaning/collecting:

Ensure adequate ventilation
Keep away from ignition sources
Do not allow material to be released to the environment without proper governmental permits.
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.

Additional information:

See Section 8 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 Information for safe handling:

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.

Information about protection against

explosions and fires:

Open and handle container with care.

Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.

Storage
Requirements to be met by storerooms and containers:
Information about storage in one common

storage facility: Further information about storage

conditions:

Store in cool location.

Store away from oxidizing agents.

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.

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8 Exposure controls and 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.

Components with critical values that require monitoring at the workplace:

Tin, organic compounds, as Sn ACGIH TLV

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) Belgium TWA Denmark TWA Finland TWA France VME 0.1; 0.3-STEL (skin) 0.1 0.1 (skin) 0.1; 0.2-STEL (skin) 0.1; 0.2-STEL (skin) 0.4; 0.2-KZG-W (skin) 0.1; 0.2-STEL (skin) 0.1; 0.2-STEL (skin) Germany MAK Hungary Korea TLV Norway TWA
Switzerland MAK-W

United Kingdom USA PEL

Additional information: No data

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. Use breathing protection with high concentrations. Safety glasses Face protection Protective work clothing.

Breathing equipment: Eye protection:

General Information

Body protection:

9 Physical and chemical properties:

Form: Liquid Colour: Smell: Colourless Unpleasant Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: -54°C 74-75°C Not determined Flash point: -12°C

Ignition temperature: Not determined Not determined **Decomposition temperature:**

Critical values for explosion:

Lower: Upper: 1.9 Vol % Not determined Steam pressure: Not determined Density at 20°C 1.291 g/cm3

Solubility in / Miscibility with

Not miscible or difficult to mix Water:

10 Stability and reactivity

Thermal decomposition / conditions to be

avoided:
Materials to be avoided:

Dangerous reactions:
Dangerous products of decomposition:

No decomposition if used and stored according to specifications.

No decomposition if used and stored Oxidizing agents
Reacts with strong oxidizing agents
Carbon monoxide and carbon dioxide
Toxic metal oxide smoke

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin:

on the eye: Sensitization

Irritant for skin and mucous membranes. Irritant effect.

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:

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.

13 Disposal considerations

Product:

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.

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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: UN-Number: 1992 İİ

Packaging group:

Label
Designation of goods:
Limited quantities (LQ)
Transport category
Tunnel restriction code

3+6.1 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Tetramethyltin) LQ0

Ď/E

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: UN Number: Label Packaging group: EMS Number:

Marine pollutant: Correct technical name:

1992 3+6.1 İ F-E,S-D

FLAMMABLE LIQUID, TOXIC, N.O.S. (Tetramethyltin)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: **UN/ID Number:** Label

3 1992 3+6.1 Packaging group: Correct technical name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Tetramethyltin)

UN "Model Regulation":

UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), II

15 Regulatory information

Designation according to EC guidelines: Code letter and hazard designation of

product:



T Toxic F Highly flammable

Risk phrases:

Highly flammable.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

Safety phrases:

Keep container in a well-ventilated place.
After contact with skin, wash immediately with plenty of soap and water.

Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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 1 (Self-assessment): slightly hazardous for water Water hazard class:

16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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