

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

Revision: 26.10.2010



Printing date 26.10.2010

**1 Identification of substance****Product details****Trade name****Dimethyltin sulfide****Stock number:**

39616

**Manufacturer/Supplier:**Alfa Aesar GmbH & Co.KG  
Benzstrasse 3  
D-76185 Karlsruhe / GermanyE-mail: gcat@matthey.com  
www.alfa-chemcat.com**Informing department:**

Product safety department.

**Emergency information:**Giftnotruf Universität Mainz / Poison Information Center Mainz  
www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240**2 Hazards identification****Hazard designation:**
 Xn Harmful
**Information pertaining to particular dangers for man and environment**R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R 36/37/38 Irritating to eyes, respiratory system and skin.**GHS label elements**
 **Warning**
H302 - Harmful if swallowed.  
H312 - Harmful in contact with skin.  
H332 - Harmful if inhaled.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.**Prevention:****Response:**P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see on this label).**Storage:****Disposal:**P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.**3 Composition/information on ingredients****Chemical characterization:****Designation: (CAS#)**

Dimethyltin sulfide (CAS# 13269-74-4)

**4 First aid measures****After inhalation**

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

**After skin contact**Seek immediate medical advice.  
Instantly wash with water and soap and rinse thoroughly.**After eye contact**Seek immediate medical advice.  
Rinse opened eye for several minutes under running water. Then consult doctor.**After swallowing**

Seek immediate medical advice.

**5 Fire fighting measures****Suitable extinguishing agents**  
**Special hazards caused by the material, its products of combustion or flue gases:**CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.Can be released in case of fire:  
Hydrogen sulphide  
Sulphur oxides (SO<sub>x</sub>)  
Carbon monoxide and carbon dioxide  
Metal oxide**Protective equipment:**Wear self-contained breathing apparatus.  
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:**

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

**Measures for cleaning/collecting:**

Dispose of contaminated material as waste according to item 13.

**Additional information:**Ensure adequate ventilation.  
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****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:**

No special measures required.

**Storage**  
**Requirements to be met by storerooms and containers:**

No special requirements.

**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.**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  
mg/m<sup>3</sup>  
ACGIH TLV 0.1; 0.2-STEL (skin)(Contd. on page 2)  
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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
No data	

**Additional information:****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.

Avoid contact with the eyes and skin.

Use breathing protection with high concentrations.

Safety glasses

Face protection

Protective work clothing.

**Breathing equipment:****Eye protection:****Body protection:****9 Physical and chemical properties:****General Information**

<b>Form:</b>	Powder
<b>Colour:</b>	Whitish
<b>Smell:</b>	Pungent

**Change in condition****Melting point/Melting range:** Not determined**Boiling point/Boiling range:** Not determined**Sublimation temperature / start:** Not determined**Flash point:**

Not applicable

**Ignition temperature:**

Not determined

**Decomposition temperature:**

Not determined

**Danger of explosion:**

Product is not explosive.

**Critical values for explosion:****Lower:** Not determined**Upper:** Not determined**Steam pressure:**

Not determined

**Density**

Not determined

**Solubility in / Miscibility with****Water:** Hydrolyzes slowly**10 Stability and reactivity****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**Materials to be avoided:**

Oxidizing agents

Water/moisture

**Dangerous reactions:**

No dangerous reactions known

**Dangerous products of decomposition:**

Hydrogen sulphide

Sulphur oxides (SO<sub>x</sub>)

Carbon monoxide and carbon dioxide

Metal oxide

**11 Toxicological information****Acute toxicity:****Primary irritant effect:**

Irritant for skin and mucous membranes.

**on the skin:**

Irritant effect.

**on the eye:**

No sensitizing effect known.

**Sensitization:**

Danger by skin resorption.

**Additional toxicological information:**

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.

**Uncleaned packagings:****Recommendation:**

Disposal must be made according to official regulations.

GB

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Trade name **Dimethyltin sulfide**

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**14 Transport information****Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

ADR/RID-GGVS/E Class: 6.1 (T3) Toxic substances.  
 Kemler Number: 60  
 UN-Number: 3146  
 Packaging group: III  
 Label: 6.1  
 Designation of goods: 3146 ORGANOTIN COMPOUND, SOLID, N.O.S. (Dimethyltin sulfide)  
 Limited quantities (LQ): LQ9  
 Transport category: 2  
 Tunnel restriction code: E

**Maritime transport IMDG/GGVSea:**

IMDG/GGVSea Class: 6.1  
 UN Number: 3146  
 Label: 6.1  
 Packaging group: III  
 Marine pollutant: No  
 Correct technical name: ORGANOTIN COMPOUND, SOLID, N.O.S. (Dimethyltin sulfide)

**Air transport ICAO-TI and IATA-DGR:**

ICAO/IATA Class: 6.1  
 UN/ID Number: 3146  
 Label: 6.1  
 Packaging group: III  
 Correct technical name: ORGANOTIN COMPOUND, SOLID, N.O.S. (Dimethyltin sulfide)

**UN "Model Regulation":**

UN3146, ORGANOTIN COMPOUND, SOLID, N.O.S., 6.1, III

**15 Regulatory information****Designation according to EC guidelines:****Code letter and hazard designation of product:**

Xn Harmful

**Risk phrases:**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
 36/37/38 Irritating to eyes, respiratory system and skin.

**Safety phrases:**

9 Keep container in a well-ventilated place.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 36/37 Wear suitable protective clothing and gloves.

**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.

**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.

**Department issuing data specification sheet:** Health, Safety and Environmental Department.**Contact:** Ryan P. Wilson**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)