

# Safety Data Sheet per OSHA HazCom 2012

per OSHA Hazcom 2012	Printing date 11/23/2015 Reviewed on 10/26/2007
1 Identification Product identifier	
Product laentmer Product name: Hexamethylditin	
Stock number: 71165 CAS Number:	
661-69-8 EC number:	
211-549-2 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals. Inc.	
30 Bond Street Ward Hill MA 01835-8099	
Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (8	366) 928-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 2 H300 Fatal if swallowed. Acute Tox. 2 H310 Fatal in contact with skin.	
H227 Combustible liquid.  Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06	
Signal word Danger	
Hāzard statements H227 Combustible liquid. H300+H310 Fatal if swallowed or in contact with skin.	
Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/	
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P361 Take off immediately all contaminated clothing. P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.	
P405 Store locked up.	
WHMIS classification B3 - Combustible liquid	
D1A - Very toxic material causing immediate and serious toxic effects	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH     3       FIRE     2       Flammability = 2	
Planmability = 2       REACTIVITY 2       Physical Hazard = 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: 661-69-8 Hexamethylditin	
Identification number(s): EC number: 211-549-2	
4 First-aid measures	
Description of first aid measures General information	
Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. <b>After inhalation</b>	
Supply fresh air. If required, provide artificial respiration. Keep patient warm.	(Contd. on page 2)
	USA –

## Product name: Hexamethylditin (Contd. of page 1) 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. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting 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 If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Metal oxide fume Metal oxide fume 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. Environmental precautions: Do not allow material to be released to the environment without 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 section 13. Prevention of secondary hazards: 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 disposal information. 7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Store away from oxidizing agents. Store away from air. Protect from heat. Further information about storage conditions: Store under dry inert gas. This product is air sensitive Keep container tightly sealed. ierate Specific end use(s) No further relevant information available. 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 ACGIH TLV 0.1; 0.2-STEL (skin) Not classifiable as a human carcinogen 0.1 (skin) 0.1 (skin) 0.1 (skin) 0.1 (skin) 0.1; 0.3-STEL (skin) 0.1

 Tin, organic compounds, as Sn
 mg/m3

 ACGIH TLV
 0.1; 0.2-STEL (skin)

 Not classifiable as a human carcinoge

 Austria MAK
 0.1 (skin)

 Belgium TWA
 0.1 (skin)

 Denmark TWA
 0.1 (skin)

 Finland TWA
 0.1 (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

 Outizerland MAK-W
 0.1; 0.2-KZG-W (skin)

 United Kingdom
 0.1; 0.2-STEL (skin)

 USA PEL
 0.1

 661-69-8 Hexamethylditin (100.0%)

 PEL (USA)
 Long-term value: 0.1 mg/m3

 as Sn
 Skin

 REL (USA)
 Long-term value: 0.2 mg/m3

 as Sn, Skin
 Short-term value: 0.2 mg/m3

 Long-term value: 0.1 mg/m3
 as Sn; Skin

as Šn; Skin EV (Canada) Long-term value: 0.1 mg/m³ as Sn, Skin

(Contd. on page 3)

Product name: Hexamethylditin

<b>Protection of hands:</b> Impervious gloves Check protective gloves prior to each use	ndling chemicals should be followed. nd feed. ang immediately. d of work. prking environment. irator when high concentrations are present. for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	(Contd. of page 2)
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color: Odor:	<b>mical properties</b> Viscous liquid Colorless Characteristic Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined. 23 °C (73 °F) 85 °C (185 °F) (45mm Hg) Not determined	
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	61 °C (142 °F) Not determined. 182 °C (360 °F) Not determined Not determined.	
Explosion limits: Lower: Upper: Vapor pressure at 85 °C (185 °F): Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	Product does not present an explosion hazard. Not determined Not determined 60 hPa (45 mm Hg) Not determined Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No o Conditions to avoid No further relevant Incompatible materials: Air Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Metal oxide fume	nended storage conditions. <b>be avoided:</b> Decomposition will not occur if used and stored according to specifications. Jangerous reactions known information available.	
Reproductive toxicity: No effects known Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: Organic tin compounds are generally mol	kin and mucous membranes. ect. wn. wn. arcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or n. <b>repeated exposure:</b> No effects known.	

Product name: Hexamethylditin	
Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) re Behavioral - tremor. Behavioral - excitement. Behavioral - ataxia. Behavioral - somnolence (general depressed activity). Lungs, Thorax, or Respiration - respiratory depression Additional toxicological information: To the best of our knowled	(Contd. of page reports the following effects in laboratory animals: edge the acute and chronic toxicity of this substance is not fully known.
12 Ecological information	
Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information availa Bioaccumulative potential No further relevant information availa Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow product to reach ground water, water course or sewa Do not allow material to be released to the environment without pr Danger to drinking water if even small quantities leak into the grou Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available.	able. rage system. proper governmental permits
13 Disposal considerations	
Waste treatment methods Recommendation Consult state, local or national regulations to e Uncleaned packagings: Recommendation: Disposal must be made according to official re	
14 Transport information	
UN-Number DOT, IMDG, IATA	UN2788
UN proper shipping name DOT IMDG, IATA	Organotin compounds, liquid, n.o.s. (Hexamethylditin) ORGANOTIN COMPOUND, LIQUID, N.O.S. (Hexamethylditin)
Transport hazard class(es) DOT	6.1 Toxic substances.
Label Class Label IMDG, IATA	6.1 6.1 6.1 (T3) Toxic substances 6.1
$\langle \mathbf{x} \rangle$	
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL73/78 and	I the IBC Code Not applicable.
Transport/Additional information: DOT	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2788, Organotin compounds, liquid, n.o.s. (Hexamethylditin), 6.1, II
15 Regulatory information Safety, health and environmental regulations/legislation spec GHS label elements The product is classified and labeled in acco Hazard pictograms	z <b>ific for the substance or mixture</b> ordance with 29 CFR 1910 (OSHA HCS)

GHS06 

 Signal word Danger

 Hazard statements

 H227
 Combustible liquid.

 H300+H310 Fatal if swallowed or in contact with skin.

 Precautionary statements

 P210
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...

 P361
 Take off immediately all contaminated clothing.

 P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

 P405
 Store locked up.

(Contd. of page 4)

### Product name: Hexamethylditin

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, come only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

market and use must be observed.

Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 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. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - 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) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (Joinsion of the American Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances LSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent LDSO: Lethal concentration and percent LDSO: Lethal concentration and percent LDSO: Lethal concentration and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: Marking Marketing Commental Industrial Hygienists (USA) MTP: Marking Marketing and Health Administration (USA) MTP: Marking Marketing Covernmental Industrial Marketing (USA) MTP: Marking Marketing Covernmental Industrial Marketing (USA) MTP: Marking Marketing Marketing Marketing Covernmental Industrial Marketing Covernmental Protection Agency (USA)

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