

# Safety Data Sheet per OSHA HazCom 2012



Product name: Dimethoxydimethylsilane	
(Contd. d	of page 1)
<ul> <li>4 First-aid measures         Description of first aid measures             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 Seek medical treatment.             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.         </li></ul>	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. 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 Silicon oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
<ul> <li>6 Accidental release measures</li> <li>Personal precautions, protective equipment and emergency procedures</li> <li>Wear protective equipment. Keep unprotected persons away.</li> <li>Ensure adequate ventilation</li> <li>Keep away from ignition sources</li> <li>Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.</li> <li>Methods and material for containment and cleaning up:</li> <li>Keep away from ignition sources.</li> <li>Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).</li> <li>Ensure adequate ventilation.</li> <li>Prevention of secondary hazards: Keep away from ignition sources.</li> <li>Reference to other sections</li> <li>See Section 7 for information on safe handling</li> <li>See Section 13 for disposal information.</li> </ul>	
7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Prevent formation of aerosols. Information about protection against explosions and fires: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Store away from water/moisture. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available.	
<ul> <li>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: Not required.         Additional information: No data         Exposure controls         Personal protective equipment         General protective equipment feed.         Keep away from foodstuffs, beverages and feed.         Remove all solled and contaminated clothing immediately.         Wash hands before breaks and at the end of work.         Avoid contact with the eyes and sting environment.         Breathing equipment: Use suitable respirator when high concentrations are present.         Protection of hands:         Impervious gloves         Impervious gloves         Evaluation of hands:         Impervious gloves         Impervious gloves         Evaluation of hands:         Impervious gloves         Evaluation of hands:         Impervious gloves         Evaluation of hands:         Evaluating a provemen</li></ul>	

Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

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Eye protection: Safety glasses Body protection: Protective work clothing.

9 Physical and chemical properties		
Information on basic physical and o General Information Appearance:	chemical properties	
Form:	Liquid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 81-82 °C (178-180 °F) Not determined	
Flash point:	10 °C (50 °F)	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not determined	
Density at 20 °C (68 °F):	0.867 g/cm³ (7.235 lbs/gal) Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with Water:	Contact with water releases a flammable alcohol.	
Partition coefficient (n-octanol/wate		
Viscosity:	a). Not determined.	
dvnamic:	Not determined.	
kinematic:	Not determined	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under reco Thermal decomposition / condition	nmended storage conditions. <b>s to be avoided:</b> Decomposition will not occur if used and stored according to specifications. Reacts with water to form methanol, which is toxic and flammable. ant information available.	
Oxidizing agents		

Oxidizing agents Water/moisture

Hazardous decomposition products: Carbon monoxide and carbon dioxide Silicon oxide Methanol

## 11 Toxicological information

Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: Inhalative LC50/4H >21350 mg/m3/4H (rat) Irritation of eyes moderate 100 µL/24H (rabbit) Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: Organic silicon compounds are generally of low toxicity. Those exhibiting moisture sensitivity may be irritating or corrosive on contact. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Sense Organs and Special Senses (Eye) - lacrimation. Behavioral - excitement. Lungs. Thorax. or Respiration - other changes. Additional - exclosion - other changes. Additional toxicological information: To the best of our knowledge 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 available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not oflow material to be released to the environment without proper co

Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

(Contd. of page 2)

## Product name: Dimethoxydimethylsilane (Contd. of page 3) 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 UN-Number DOT, IMDG, IATA UN1993 UN proper shipping name DOT Flammable liguids, n.o.s. (Dimethoxydimethylsilane) FLAMMABLE LIQUID, N.O.S. (Dimethoxydimethylsilane) ĨMDG, IATA Transport hazard class(es) DOT Class 3 Flammable liquids. Label Class (F1) Flammable liquids Label IMDG, IATA ð Class 3 Flammable liquids. Label Packing group DOT, IMDG, IATA IIEnvironmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN1993, Flammable liquids, n.o.s., special provision 640D (Dimethoxydimethylsilane), 3, II UN "Model Regulation": 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms $\langle ! \rangle$ \* GHS02 GHS07 Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H399 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P210 Keen away from heat Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 P501 National regulations. All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). 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, tege 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. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. (Contd. on page 5) National regulations

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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 accoryms: 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 Transportation EINECS: European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of Existing Commercial Chemical Substances EAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UDS: Lethal concentration, 50 percent LD50: Lethal concentration and rev Bioaccumulative ACGIH: American Colerence of Governmental Industrial Hygienists (USA) OSH: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA)

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USA