

Revision number: 3 Revision date: 10/17/2016

1. IDENTIFICATION

Product name: Product code: Dimethoxy(methyl)silane D2100

For laboratory research purposes.

Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Product use: Restrictions on use:

Company:

TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Acute Toxicity - Dermal [Category 3] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 1] Flammable Liquids [Category 2]

Signal word:

Danger!

Hazard Statement(s):

Causes serious eye damage Causes skin irritation Highly flammable liquid and vapor Toxic in contact with skin

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] Wear protective gloves and protective clothing. Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye protection. Wear face protection (full length face shield). Keep away from heat, sparks, open flames or other hot surfaces. - No smoking. Keep container tightly closed. Ground or bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection and face protection. [Response] If on skin: Wash with plenty of water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, CO2, water spray or alcoholresistant foam to extinguish. [Storage] Store locked up. Store in a well-ventilated place. Keep cool. Dispose of contents and container in accordance with US EPA guidelines for the classification and [Disposal] determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Hazards not otherwise classified: [HNOC] May be harmful if swallowed.

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

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2. HAZARD(S) IDENTIFICATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

3. COMPOSITION/INFORMATION	UN INGREDIENTS
Substance/Mixture:	Substance
Components: Percent:	Dimethoxy(methyl)silane
CAS Number:	>97.0%(GC) 16881-77-9
Molecular Weight:	106.20
Chemical Formula:	C ₃ H ₁₀ O ₂ Si
onennour ronnulu.	
4. FIRST-AID MEASURES	
Inhalation:	Immediately call a poison center or doctor. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take
Skin contact:	precautions to protect themselves. Immediately call a poison center or doctor. Remove and wash contaminated clothing before re-use. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that
Eye contact:	medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Eye contact with vapors or substance may cause severe injury, burns, or death. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical
Ingestion:	personnel are aware of the material(s) involved and take precautions to protect themselves. Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	Pain. Redness. No data available
Immediate medical attention:	WARNING: It might be dangerous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is toxic. WARNING: It might be hazardous to the person providing aid to give mouth- to-mouth respiration, because the inhaled material is corrosive. For severe burns, immediate medical attention is required. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO_2 or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the che Hazardous combustion products: Other specific hazards:	mical These products include: Carbon oxides Silicates Closed containers may explode from heat of a fire.
have a very low flash point: Use of wate explosion hazard. Containers may explo Special protective equipment for fire-	ght streams. Dike fire-control water for later disposal; do not scatter the material. CAUTION: All these products r spray when fighting fire may be inefficient. Do not use straight streams. Runoff to sewer may create fire or de when heated. Move containers from fire area if you can do it without risk. fighters: reathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Use spark-
	proof tools and explosion-proof equipment. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn
	unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Isolate area until gas has dispersed. In case of a spill and/or a leak, always shut off any sources of ignition ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material.

Environmental precautions:

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Do NOT breath gas, fumes, vapor, or spray. Manipulate under an adequate fume hood. Avoid contact with skin. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Moisture sensitive.
Storage incompatibilities:	Combustible substances, Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Wear protective gloves.
Eye protection:	Splash goggles.
Skin and body protection:	Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Liquid
Form:	Clear
Color:	Colorless - Almost colorle
Odor:	No data available
Odor threshold:	No data available
Melting point/freezing point:	No data available

Boiling point/range: Decomposition temperature: Relative density: **Kinematic Viscosity:**

Partition coefficient: n-octanol/water (log Pow) less

61°C (142°F) No data available 0.86 No data available No data available pH: Vapor pressure: Vapor density: **Dynamic Viscosity:**

Evaporation rate: (Butyl Acetate = 1)

No data available No data available No data available No data available

No data available

Dimethoxy(methyl)silane

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Flash point:	CAL PROP -9°C	(16°F)	Autoignition te	mpera	ature: N	lo data available
Flammability (solid, gas):		ata available	Flammability o	expl	osive limits:	
			Lower	-	No data availabl	e
			Upper	:	No data availabl	e
Solubility(ies):						
10. STABILITY AND REAC	TIVITY					
Reactivity: Chemical Stability: Possibility of Hazardous Read Conditions to avoid: Incompatible materials: Hazardous Decomposition Pr			ture sensitive. lammable/explosive vapor-ai sure to air. Exposure to moi			e.
11. TOXICOLOGICAL INFO	ORMATIO	V				
RTECS Number: VV3644166						
Acute Toxicity: orl-rat LD50:5600 uL/kg			skn-rbt LD50:73	0 uL/ł	g	
Skin corrosion/irritation: No data available						
Serious eye damage/irritation eye-rbt 10 uL MOD	:					
Respiratory or skin sensitizat No data available	ion:					
Germ cell mutagenicity: No data available						
Carcinogenicity:						
No data available						
IARC: No data available	е	NTP:	No data available		OSHA:	No data available
Reproductive toxicity: No data available						
No data available Routes of Exposure: Symptoms related to exposur Overexposure may result in ser blistering. Skin contact may result	ious illness (or death. Skin contac	ntact, Ingestion, Skin contac t may result in inflammation; ye contact can result in corn	chara	acterized by itchin mage or blindnes	ig, scaling, reddening, or occasional ss.
No data available Routes of Exposure: Symptoms related to exposur Overexposure may result in ser	ious illness o ult in rednes	or death. Skin contac s, pain or dry skin. E	t may result in inflammation; ye contact can result in corn	chara eal da	mage or blindnes	SS.
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No data available Routes of Exposure: Symptoms related to exposur Overexposure may result in ser blistering. Skin contact may resul Potential Health Effects: Skin and eye contact may resul Target organ(s): <u>12. ECOLOGICAL INFORM</u> <u>Ecotoxicity</u> Fish: Crustacea:	ious illness (ult in rednes t in irritation. //ATION	or death. Skin contac s, pain or dry skin. E May be harmful if in No data available No data available No data available	t may result in inflammation; ye contact can result in corn	chara eal da	mage or blindnes	SS.
No data available Routes of Exposure: Symptoms related to exposur Overexposure may result in ser blistering. Skin contact may resul Potential Health Effects: Skin and eye contact may resul Target organ(s): <u>12. ECOLOGICAL INFORM</u> <u>Ecotoxicity</u> Fish: Crustacea: Algae: Persistence and degradability Bioaccumulative potential (BC Mobillity in soil:	ious illness (ult in rednes t in irritation. //ATION	or death. Skin contac s, pain or dry skin. E May be harmful if in No data available No data available	t may result in inflammation; ye contact can result in corn	chara eal da	mage or blindnes	SS.
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Henry's Law:		V Na data availab	-		
constant (PaM³/m	nol)	No data available	9		
13. DISPOSAL	CONSIDERATION	IS			
Disposal of produ	uct:	rules and regulat chemical incinera assistance but d regulatory compl	iss if possible. It is the generato tions. You may be able to dissol ator equipped with an afterburne oes not replace these laws, nor iance according to the law. US in 40 CFR Parts 261. The produce the soil.	lve or mix material with a com er and scrubber system. This does compliance in accordan EPA guidelines for Identification	bustible solvent and burn in section is intended to provi ce with this section ensure on and Listing of Hazardou
Disposal of conta Other considerati	ions:	Observe all fede	used product. Do not re-use en ral, state and local regulations v	npty containers. vhen disposing of the substan	ce.
14. TRANSPOR	T INFORMATION				
DOT (US) UN number: UN1992	Proper Shippin Flammable liqui		Class or Division: 3 Flammable liquid	Subrisk(s): 6.1 Toxic material.	Packing Group: II
IATA UN number: UN1992	Proper Shippin Flammable liqui		Class or Division: 3 Flammable liquid	Subrisk(s): 6.1 Toxic material.	Packing Group:
IMDG UN number: UN1992	Proper Shippin Flammable liqui		Class or Division: 3 Flammable liquid	Subrisk(s): 6.1 Toxic material.	Packing Group:
EmS number:					
Emo number.		F-E, S-D			
	ORY INFORMATIO				
15. REGULATO	Control Act (TSCA	N	SCA) inventory.		
15. REGULATO Toxic Substance This product is ON	Control Act (TSCA I the EPA Toxic Sub	<i>N</i> 8b.):	SCA) inventory.		
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15. REGULATO Toxic Substance This product is ON US Federal Regul CERCLA Hazardo SARA 313 SARA 302 State Regulations	Control Act (TSCA I the EPA Toxic Sub lations bus substance and I : :	8b.): stances Control Act (TS Reportable Quantity: Not Listed	SCA) inventory.		
15. REGULATO Toxic Substance This product is ON US Federal Regul CERCLA Hazardo SARA 313 SARA 302 State Regulations State Right-to-Kn Massachu New Jerse Pennsylva	Control Act (TSCA I the EPA Toxic Sub lations bus substance and I : : : : : : : : : : : : :	8b.): stances Control Act (TS Reportable Quantity: Not Listed	SCA) inventory.		
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16. OTHER INFORMATION

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Revision date: 10/17/2016 Revision number: 3

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.