

SAFETY DATA SHEET

Creation Date 26-April-2010

Revision Date 23-January-2018

Revision Number 4

1. Identification

AC430880000; AC430881000; AC430888000

Dichlorodimethylsilane

Cat No. :

Product Name

CAS-No Synonyms 75-78-5 Dimethyldichlorosilane; DMDCS

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada Tel: 1-800-234-7437

Acros Organics One Reagent Lane Fair Lawn, NJ 07410 Manufacturer Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Category 2 Category 4 Category 3 Category 1 A Category 1 Category 3
Calegory 3

Label Elements

Signal Word Danger

Hazard Statements Highly flammable liquid and vapor Harmful if swallowed Toxic if inhaled Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharges

Do not breathe dust/fumes/gas/mist/vapours/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

IF INHALED: Remove person to fresh air and keep comfortable for breathing

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/doctor

Rinse mouth

Do NOT induce vomiting

Wash contaminated clothing before reuse

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

3. Composition/Information on Ingredients

Component		CAS-No	Weight %
Dimethyldichlorosilane		75-78-5	>95
	4.	First-aid measures	
General Advice	Show this sa required.	fety data sheet to the doctor in attendar	nce. Immediate medical attention is
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.		
Inhalation	If not breathin	ng, give artificial respiration. Do not use	mouth-to-mouth method if victim

	ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Move to fresh air. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects Notes to Physician	Causes burns by all exposure routes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
Unsuitable Extinguishing Media	Water
Flash Point	-9 °C / 15.8 °F

Method -	No information available
Autoignition Temperature	460 °C / 860 °F
Explosion Limits	
Upper	10.4 vol %
Lower	5.5 vol %
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) Hydrogen chloride gas Silicon dioxide

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health	Flammability	Instability	Physical hazards		
3	3	1	N/A		
	6. Accidental re	lease measures			
Personal Precautions	safe areas. Keep people a	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.			
Environmental Precautions	Should not be released into	Should not be released into the environment.			
Methods for Containment and Up	Clean Soak up with inert absorbe Remove all sources of igni	nt material. Keep in suitable, c tion. Use spark-proof tools and			
	7. Handling	and storage			
Handling	under a chemical fume hoo	od. Do not breathe vapors or s	on skin, or on clothing. Use only pray mist. Do not ingest. Keep tion. Use only non-sparking tools.		

To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat Storage and sources of ignition. Keep away from water. Refrigerator/flammables. Corrosives area. Exposure controls / personal protection **Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

OSHA - Occupational Safety and Health Administration

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that evewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Hand Protection	Goggles Wear appropriate protectiv	e gloves and clothing to preven	t skin exposure.
Glove material	Breakthrough time	Glove thickness	Glove comments
Nitrile rubber	See manufacturers	-	Splash protection only
Neoprene Natural rubber	recommendations		
PVC			

Inspect gloves before use, observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly Recommended Filter type: Organic gases and vapours filter Type A Brown conforming to EN14387

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs, Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

	9. Physical and chemical properties
Physical State	Liquid
Appearance	Clear
Odor	pungent
Odor Threshold	No information available
рН	No information available < 1
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Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Elammability or explosive limits	-76 °C / -104.8 °F 70 °C / 158 °F -9 °C / 15.8 °F No information available Not applicable
Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature	10.4 vol % 5.5 vol % 150 hPa @ 20 °C 1.45 1.060 Water reactive No data available 460 °C / 860 °F < 100 °C
Viscosity Molecular Formula Molecular Weight	0.6 cP at 25 °C C2 H6 Cl2 Si 129.06

10. Stability and reactivity

Reactive Hazard	Yes	
Stability	Moisture sensitive. Water reactive.	
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.	
Incompatible Materials	Water, Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas, Silicon dioxide		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	Reacts with water and forms Hydrogen chloride.	
	11. Toxicological information	

Acute Toxicity

Product Information Component Information

component informa						
Componen	nt	LD50 Oral		LD50 Dermal	LC50	Inhalation
Dimethyldichloro	silane	LD50 = 800 mg/kg (Ra	at)	Not listed	LC50 = 930	ppm (Rat)4h
-		$LD50 = 5660 \mu L/kg$ (Ra	at)			
			,			
Toxicologically Syn	eraistic	No information ava	ilable			
Products	J					
	liate effects as	well as chronic effect	ts from short a	nd long-term exposu	re	
Delayed and minica		Weil as official effect		na long term exposu		
Irritation		Irritating to eves re	eniratory evetom	and skin		
Initation		Irritating to eyes, respiratory system and skin				
0						
Sensitization		No information available				
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Carcinogenicity		The table below inc	licates whether e	each agency has listed	any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Dimethyldichlorosilane	75-78-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effect	ects No information available.					

Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	Respiratory system None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.
	12. Ecological information

Ecotoxicity No information available. Reacts with water so no ecotoxicity data for the substance is available.

Persistence and Degradability	Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its volatility.
	13. Disposal considerations

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Waste Disposal Methods
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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	
UN-No	UN1162
Proper Shipping Name	DIMETHYLDICHLOROSILANE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	II
TDG	
UN-No	UN1162
Proper Shipping Name	DIMETHYLDICHLOROSILANE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	II
IATA	
UN-No	UN1162
Proper Shipping Name	DIMETHYLDICHLOROSILANE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN1162
Proper Shipping Name	DIMETHYLDICHLOROSILANE
Hazard Class	3
Subsidiary Hazard Class	8

Packing Group

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

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International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Dimethyldichlorosilane	Х	-	Х	200-901-0	-		Х	Х	Х	Х	Х

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

16. Other information				
Prepared By	Regulatory Affairs			
	Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
Creation Date	26-April-2010			
Revision Date	23-January-2018			
Print Date	23-January-2018			
Revision Summary	This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS