

MATERIAL SAFETY DATA SHEET



Conforms to 93/112/EC and ISO 11014-1

1. Chemical Product and Company Identification

Product Name: Glass Free

Product Number: EC-621

Chemical Names/

Description:

Dichlorodimethylsilane in hydrocarbon solvent.

Manufacturer

National Diagnostics
305 Patton Drive
Atlanta, GA 30336

Telephone Numbers

(800) 526-3867
(404) 699-2121

Emergency Numbers

Chemtrec

(800) 424-9300 (U.S. & Canada)

01-703-527-3887 (outside U.S. & Canada)

2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #	TLV (Units)
Dimethyldichlorosilane	5 - 15	75-78-5		None established
Alkyl Hydrocarbons	85 - 95	68920-06-9		300 ppm

EEC LABEL SYMBOL AND CLASSIFICATION



R: 11-36/37/38

Highly flammable. Irritating to eyes, respiratory system and skin.

S: 23-62

Do not breathe fumes. If swallowed, do not induce vomiting. Seek medical advice immediately and show this container or label.

3. Hazards Identification

Appearance and Odor

Colorless liquid with a slight acid odor.

EMERGENCY OVERVIEW - IMMEDIATE HAZARD

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE

FLASH FIRE. WATER REACTIVE. CORROSIVE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. MATERIAL IS EXTREMELY DESTRUCTIVE TO THE UPPER RESPIRATORY TRACT, EYES, AND SKIN. CAUSES SEVERE BURNS TO EVERY AREA OF CONTACT.

EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING:

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

Potential Health Effects

Inhalation

Inhalation of vapors irritates the mucous membranes and may cause lung injury.

Ingestion

May be fatal if swallowed. Swallowing causes severe gastrointestinal damage to occur.

Skin

Severe burns may occur from even a short time of contact. May be absorbed through the skin.

Eyes

Eye contact produces severe burns, pain, swelling, corneal erosions and possibly blindness.

Signs and Symptoms of Overexposure

Inhalation

Labored breathing, shortness of breath, chest pain and pulmonary edema. Onset of symptoms may be delayed several hours.

Ingestion

Severe burns of the mouth and stomach.

Skin

Redness, pain, and ulceration of the skin.

Eyes

Severe pain, extreme redness, and blurring of vision.

Carcinogenicity

Not listed as a known or anticipated human carcinogen by NTP or IARC.

Mutagenicity

No information found.

Reproductive Toxicity

No information found.

Teratogenic Effects

No information found.

Routes of Entry

Inhalation, ingestion, or skin contact.

Target Organ Statement

No information found.

4. First Aid Measures

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion

DO NOT INDUCE VOMITING. If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

Skin

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing

contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Flash Point	25 F (-4C)	Flammable Limits	No Data
Flash Point Method	TCC	Autoignition temperature	No Data

Extinguishing media

Dry powder, foam, carbon dioxide. (Water may be ineffective.)

Protective Equipment

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Hazardous Combustion Products

Hydrogen chloride gas and phosgene gas may be formed upon heating.

Unusual Fire and Explosion Hazards

Flammable liquid. Vapor forms explosive mixtures with air. Vapor may travel considerable distances to ignition source and flash back.

NFPA Codes: Health 3 Flammability 3 Reactivity 1

6. Accidental Release Measures

Steps to be taken in case material is released or spilled

Eliminate source of ignition. Ventilate area. Cover with inert, absorbant material to confine spill and sweep or shovel into container. Close container tightly. Avoid breathing vapors. Do not allow contact with water.

Waste Disposal Method

Disposal must be made in accordance with applicable federal, state, and local regulations.

Personal Precautions

Wear appropriate protective equipment as specified in section 8.

7. Handling and Storage

Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Transfer methods should avoid static sparks. Use explosion proof ventilation.

Storage

Keep in a tightly closed container, stored in a cooled, dry, ventilated area away from sources of heat or ignition. Protect from physical damage. Isolate from incompatible materials (section 10).

Storage Temperature

Room Temperature

Disposal

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids).

8. Exposure Controls/Personal Protection

Airborne Exposure Limits

Component: Dimethyldichlorosilane

ACGIH Threshold Limit Value (TLV): None established

OSHA Permissible Exposure Limit (PEL):

Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

Respiratory Protection

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Other Control Measures

There is insufficient data in the published literature to assign complete numerical safety ratings and laboratory protective equipment for this product. Special precautions must be used in storage, use and handling.

9. Physical Properties

Boiling point

158C

Evaporation Rate

Glass Free

Oral Rat LD50 (mg/kg):

57 ml/kg

Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Dimethyldichlorosilane	No	No	None
Alkyl Hydrocarbons	No	No	None

12. Ecological Information

Dimethyldichlorosilane

When released into the soil, this material is expected to quickly evaporate. When released into water, this material will react vigorously, releasing hydrogen chloride and phosgene. This material is not expected to significantly bioaccumulate. When released into the air, this material will react readily with atmospheric moisture, releasing hydrogen chloride and phosgene.

Alkyl Hydrocarbons

No specific ecological data is available for this material. Please refer to Section 6 for information regarding accidental releases.

13. Disposal Considerations

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids).

14. Transport Information

D.O.T.

Proper Shipping Name: Dimethyldichlorosilane

Hazard Class: 3,8

UN Number: 1162

Packing Group: II

I.A.T.A.

Proper Shipping Name: Dimethyldichlorosilane (forbidden by air in USA)

Hazard Class: 3,8

UN Number: 1162

Packing Group: II

I.M.O.

Proper Shipping Name: Dimethyldichlorosilane

Hazard Class: 3,8

UN Number: 1162

Packing Group: II

15. Regulatory Information

United States

TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Dimethyldichlorosilane	Yes	No	Yes	Yes	Yes
Alkyl Hydrocarbons	Yes	No	No	No	No

Europe

EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

EEC LABEL SYMBOL AND CLASSIFICATION



R: 11-36/37/38

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S: 23-62

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16. Other Information

NFPA Codes: Health 3 Flammability 3 Reactivity 1

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