Material Safety Data Sheet
Dichlorodimethylsilane, 99%

ACC# 50298

Section 1 - Chemical Product and Company Identification

MSDS Name: Dichlorodimethylsilane, 99%
Catalog Numbers: AC113310000, AC113310010, AC113310050, AC113312500
Synonyms: Dichloromethylsilane; Dimethyl-dichlorsilan, DCDMS.
Company Identification:

Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01
For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
75-78-5	Dichlorodimethylsilane	99%	200-901-0

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear, colorless liquid. Flash Point: -9 deg C.
Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. Corrosive. Water-reactive. Lachrymator (substance which increases the flow of tears). Vapor may cause flash fire. **Flammable liquid and vapor.** May be harmful if swallowed.
Target Organs: Respiratory system, eyes, skin.

Potential Health Effects
Eye: Causes eye burns. Lachrymator (substance which increases the flow of tears).
Skin: Causes skin burns.
Ingestion: May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns. May be harmful if swallowed.
Inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.
Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid imme diately.
Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.
Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician: Support cardiovascular and respiratory function.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Reacts violently with water. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Contact with metals may evolve flammable hydrogen gas.
Extinguishing Media: DO NOT USE WATER! Do NOT get water inside containers. For large fires, use water spray, fog or alcohol-resistant foam. For small fires, use carbon dioxide, dry chemical, dry sand, or alcohol-resistant foam. Cool containers with flooding quantities of water until well after fire is out.
Flash Point: -9 deg C (15.80 deg F)
Autoignition Temperature: 460 deg C (860.00 deg F)
Explosion Limits, Lower:5.5
Upper: 10.4
NFPA Rating: (estimated) Health: 3; Flammability: 4; Instability: 3; Special Hazard: -W-

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills

immediately, observing precautions in the Protective Equipment section. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Remove all sources of ignition. Do not expose spill to water. Do not get water inside containers.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Take precautionary measures against static discharges. Do not ingest or inhale. Do not allow contact with water. Use only in a chemical fume hood. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
Storage: Keep away from sources of ignition. Store in a cool, dry place. Keep refrigerated. (Store below 4°C/39°F.) Store in a tightly closed container. Keep under a nitrogen blanket. Flammables-area. Do not store in metal containers.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Dichlorodimethylsilane	none listed	none listed	none listed

OSHA Vacated PELs: Dichlorodimethylsilane: No OSHA Vacated PELs are listed for this chemical.
Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear a chemical apron. Wear appropriate protective clothing to prevent skin exposure.
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.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: clear, colorless
Odor: Pungent odor.
pH: Not available.
Vapor Pressure: 135 mm Hg @ 25 C
Vapor Density: 1.45
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 70 deg C
Freezing/Melting Point:-16 deg C
Decomposition Temperature: Not available.
Solubility: Reacts with water.
Specific Gravity/Density:1.064
Molecular Formula:C2H6Cl2Si
Molecular Weight:129.0335

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: High temperatures, mechanical shock, incompatible materials, ignition sources, metals, exposure to moist air or water.
Incompatibilities with Other Materials: Acids, alcohols, amines, strong bases, esters, ketones, aldehydes, acetone, ammonia, and strong oxidizing agents. Reacts violently with water to liberate an acidic gas which in contact with metal surfaces can generate flammable or explosive hydrogen gas.
Hazardous Decomposition Products: Hydrogen chloride, chlorine, phosgene, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, silicon dioxide.
Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

RTECS#:
CAS# 75-78-5: VV3150000
LD50/LC50:
CAS# 75-78-5:
Draize test, rabbit, eye: 5 mg/24H Severe;
Draize test, rabbit, skin: 20 mg/24H Moderate;
Inhalation, mouse: LC50 = 300 mg/m3/2H;
Inhalation, rat: LC50 = 930 ppm/4H;
Oral, rat: LD50 = 5660 uL/kg;

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Oral, rat: LD50 =

Carcinogenicity:
CAS# 75-78-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information present.
Teratogenicity: No information present.
Reproductive Effects: No information present.
Mutagenicity: No information present.
Neurotoxicity: No information present.
Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. Water danger/protection: WGK 1Aquatic toxicity range Tlm 96-100 ppm.Dichlorodimethylsilane is not expected to persist long enough in the environment to bioconcentrate.
Environmental: Environmental degradation: Dichlorodimethylsilane hydrolyzes in water to release Hydrochloric acid. If released to soil, rapid volatilization would be expected. In the air, dichlorodimethylsilane will ultimately hydrolyze in water droplets in the troposhere. In arid regions, it might reach the stratosphere and undergo photolysis.
Physical: No information available.
Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	DIMETHYLDICHLOROSILANE	DIMETHYLDICHLOROSILANE
Hazard Class:	3	3(8)
UN Number:	UN1162	UN1162
Packing Group:	II	II
Additional Info:		FLASHPOINT -2 C

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 75-78-5 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances
CAS# 75-78-5: 500 lb TPQ
SARA Codes
CAS # 75-78-5: immediate, fire.
Section 313 No chemicals are reportable under Section 313.
Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA:
CAS# 75-78-5 is considered highly hazardous by OSHA.
STATE
CAS# 75-78-5 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols:
F C
Risk Phrases:
R 12 Extremely flammable.
R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:
S 16 Keep away from sources of ignition - No smoking.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 29 Do not empty into drains.
S 33 Take precautionary measures against static discharges.
S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)
CAS# 75-78-5: No information available.
Canada - DSL/NDSL
CAS# 75-78-5 is listed on Canada's DSL List.
Canada - WHMIS
This product has a WHMIS classification of B2, D1A, E, F.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
Canadian Ingredient Disclosure List
CAS# 75-78-5 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 12/11/1997
Revision #3 Date: 10/03/2005