



Material Safety Data Sheet

Chlorotrimethylsilane, 1M solution in dichloromethane

MSDS# 10532

Section 1 - Chemical Product and Company Identification

MSDS Name: Chlorotrimethylsilane, 1M solution in dichloromethane  
Catalog Numbers: AC381600000, AC381601000, AC381608000  
Synonyms: None known.

Company Identification: Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

Company Identification: (USA) Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01  
For information in Europe, call: +32 14 57 52 11  
Emergency Number, Europe: +32 14 57 52 99  
Emergency Number US: 201-796-7100  
CHEMTREC Phone Number, US: 800-424-9300  
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

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Risk Phrases: 40

CAS#: 75-09-2  
Chemical Name: Dichloromethane  
%: 89.1%  
EINECS#: 200-838-9  
Hazard Symbols: XN

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Risk Phrases: 11 14 21 34

CAS#: 75-77-4  
Chemical Name: Chlorotrimethylsilane  
%: 10.9%  
EINECS#: 200-900-5  
Hazard Symbols: F C

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Text for R-phrases: see Section 16

Hazard Symbols: C



Risk Phrases: 10 14 29 35 40

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Causes burns by all exposure routes. Reacts violently with water. Flammable liquid and vapor. Contact with water liberates toxic gas. Possible cancer hazard. May cause cancer based on animal data. Target Organs: Respiratory system, gastrointestinal system, eyes, skin.

#### Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns. May be harmful if absorbed through the skin.

Ingestion: Causes gastrointestinal tract burns. May be harmful if swallowed.

Inhalation: Causes chemical burns to the respiratory tract. May be harmful if inhaled.

Chronic: Possible cancer hazard based on tests with laboratory animals. Limited evidence of a carcinogenic effect.

#### 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 immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid immediately. Call a poison control center.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician: Treat symptomatically and supportively.

#### 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 may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Water reactive. Material will react with water and may release a flammable and/or toxic gas. Flammable liquid and vapor.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide. DO NOT USE WATER!

Autoignition Temperature: Not available

Flash Point: 40 deg C ( 104.00 deg F)

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: ; 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. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not expose spill to water. Do not get water inside containers. Do not let this chemical enter the environment.

#### Section 7 - Handling and Storage

Handling: Do not allow water to get into the container because of violent reaction. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. Do not allow contact with water. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Store under nitrogen.

#### Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs

Dichloromethane	50 ppm	2300 ppm IDLH	25 ppm TWA; 12.5 ppm Action Level; 25 ppm TWA; 125 ppm STEL (15 min, Cancer, cardiac effects, central nervous system effects, liver effects, and skin and eye irritation - see 29 CFR 1910.1052)
Chlorotrimethylsilane	none listed	none listed	none listed

OSHA Vacated PELs: Dichloromethane: 500 ppm TWA Chlorotrimethylsilane: None listed

#### Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

#### Exposure Limits

#### 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 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

Color: Not available

Odor: Not available

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: Not available

Decomposition Temperature: Not available

Solubility in water: Not available

Specific Gravity/Density: 1.257

Molecular Formula: C<sub>3</sub>H<sub>9</sub>ClSi

Molecular Weight: 108.64

#### Section 10 - Stability and Reactivity

**Chemical Stability:** Reacts violently with water.

**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, exposure to moist air or water.

**Incompatibilities with Other Materials:** Not available

**Hazardous Decomposition Products:** Hydrogen chloride, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

#### Section 11 - Toxicological Information

RTECS#: CAS# 75-09-2: PA8050000  
CAS# 75-77-4: VV2710000

RTECS:

**CAS# 75-09-2:** Draize test, rabbit, eye: 162 mg Moderate;  
Draize test, rabbit, eye: 10 mg Mild;  
Draize test, rabbit, eye: 500 mg/24H Mild;  
Draize test, rabbit, skin: 810 mg/24H Severe;  
Draize test, rabbit, skin: 100 mg/24H Moderate;  
Inhalation, mouse: LC50 = 14400 ppm/7H;  
Inhalation, mouse: LC50 = 49100 mg/m<sup>3</sup>/6H;  
Inhalation, mouse: LC50 = 54000 mg/m<sup>3</sup>/2H;  
Inhalation, mouse: LC50 = 56220 mg/m<sup>3</sup>/7H;  
Inhalation, rat: LC50 = 52 gm/m<sup>3</sup>;

LD50/LC50: Inhalation, rat: LC50 = 76000 mg/m<sup>3</sup>/4H;  
Inhalation, rat: LC50 = 52000 mg/m<sup>3</sup>/6H;  
Oral, mouse: LD50 = 873 mg/kg;  
Oral, rabbit: LD50 = 2000 mg/kg;  
Oral, rat: LD50 = 1600 mg/kg;  
Oral, rat: LD50 = 985 mg/kg;

RTECS:

**CAS# 75-77-4:** Draize test, rabbit, eye: 5 uL Moderate;  
Draize test, rabbit, skin: 500 uL Moderate;  
Oral, rat: LD50 = 5660 uL/kg;  
Skin, rabbit: LD50 = 1780 uL/kg;

Carcinogenicity: Dichloromethane - ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans  
California: carcinogen, initial date 4/1/88 NTP: Suspect carcinogen IARC: Group 2B carcinogen  
Chlorotrimethylsilane - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Other: Do not empty into drains.

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

US DOT

Shipping Name: FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.

Hazard Class: 3

UN Number: UN2924

Packing Group: II

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 75-09-2: 1000 lb final RQ; 454 kg final RQ

#### Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 10 Flammable.

R 14 Reacts violently with water.

- R 29 Contact with water liberates toxic gas.
- R 35 Causes severe burns.
- R 40 Limited evidence of a carcinogenic effect.

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 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

- CAS# 75-09-2: 2
- CAS# 75-77-4: 1

Canada

- CAS# 75-09-2 is listed on Canada's DSL List
- CAS# 75-77-4 is listed on Canada's DSL List
- Canadian WHMIS Classifications: B6, D2A, E
- 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.
- CAS# 75-09-2 is listed on Canada's Ingredient Disclosure List
- CAS# 75-77-4 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

- CAS# 75-09-2 is listed on the TSCA Inventory.
- CAS# 75-77-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 8/04/2005

Revision #2 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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