SECTION 1. Product and company identification

1.1. Product identifier

Product form: Substance
Name: Dichlorosilane
CAS No: 4109-96-0
Formula: SiH2Cl2
Other means of identification: Chlorosilane A-199, DCS

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Industrial use. Use as directed.

1.3. Details of the supplier of the safety data sheet

Praxair, Inc.
10 Riverview Drive
Danbury, CT 06810 - USA
T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146
www.praxair.com

1.4. Emergency telephone number

Emergency number: Onsite Emergency: 1-800-645-4633
CHEMTREC, 24hr/day 7days/week
— Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887
(collect calls accepted, Contract 17729)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification
Flam. Gas 1 H220
Liquefied gas H280
Acute Tox. 2 (Inhalation: gas) H330
Skin Corr. 1B H314
Eye Dam. 1 H318

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US)

Signal word (GHS-US): DANGER
Hazard statements (GHS-US)
H220 - EXTREMELY FLAMMABLE GAS
H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
H330 - FATAL IF INHALED
CGA-HG22 - CORROSIVE TO THE RESPIRATORY TRACT
CGA-HG11 - SYMPTOMS MAY BE DELAYED

Precautionary statements (GHS-US)
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from Heat, Open flames, Sparks, Hot surfaces. - No smoking
P260 - Do not breathe gas
P264 - Wash hands thoroughly after handling
P271+P403 - Use and store only outdoors or in a well-ventilated place
P280+P284 - Wear protective gloves, protective clothing, eye protection, respiratory protection,
and/or face protection
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely
P381 - Eliminate all ignition sources if safe to do so
P405 - Store locked up
PS01 - Dispose of contents/container in accordance with container supplier/owner instructions
CGA-PG05 - Use a back flow preventive device in the piping
CGA-PG06 - Close valve after each use and when empty
CGA-PG20+CGA-PG10 - Use only with equipment of compatible materials of construction and rated for cylinder pressure
CGA-PG12 - Do not open valve until connected to equipment prepared for use
CGA-PG18 - When returning cylinder, install leak tight valve outlet cap or plug
CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)

2.3. **Other hazards**

Other hazards not contributing to the classification:
- Reacts with moisture to form hydrochloric acid (aqueous hydrogen chloride)
- Trace amounts may be present in the product.

2.4. **Unknown acute toxicity (GHS US)**

No data available

### SECTION 3: Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichlorosilane</td>
<td>(Main constituent)</td>
<td>100</td>
</tr>
<tr>
<td>(CAS No) 4109-96-0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.2. **Mixture**

Not applicable

### SECTION 4: First aid measures

4.1. **Description of first aid measures**

First-aid measures after inhalation:
- Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.
- WARNING: To avoid possible chemical burns, the rescuer should avoid breathing any exhaled air from the victim.

First-aid measures after skin contact:
- Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash with plenty of soap and water. If irritation persists, consult a doctor.

First-aid measures after eye contact:
- Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

First-aid measures after ingestion:
- Ingestion is not considered a potential route of exposure.

4.2. **Most important symptoms and effects, both acute and delayed**

No additional information available

4.3. **Indication of any immediate medical attention and special treatment needed**

No additional information available

### SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media:
- No known fire extinguishing methods. Coarse water spray or all-purpose type foams applied in accordance with manufacturer's recommendations for large fires.

Unsuitable extinguishing media:
- Reacts with water.
### 5.2. Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Fire hazard</th>
<th>: EXTREMELY FLAMMABLE GAS. If venting or leaking gas catches fire, do not extinguish flames. Flammable vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device. When this product reacts with moisture in the air, it produces dense white clouds of silica and large volumes of hydrogen chloride. Hydrogen, which can pose fire and explosion hazards, may also be evolved. The solid hydrolysis products are also reported to be flammable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosion hazard</td>
<td>: EXTREMELY FLAMMABLE GAS. Forms explosive mixtures with air and oxidizing agents.</td>
</tr>
<tr>
<td>Reactivity</td>
<td>: REACTS VIOLENTLY WITH WATER. May explode or ignite: May ignite spontaneously in hot air or if it contacts a hot object.</td>
</tr>
</tbody>
</table>

### 5.3. Advice for firefighters

| Firefighting instructions | Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection. |
| Protection during firefighting | DANGER! Toxic, flammable, corrosive, liquid and gas under pressure. |
| Special protective equipment for fire fighters | Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. |
| Specific methods | Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive reignition may occur. Extinguish any other fire |
| Specific methods | If leaking do not spray water (reacts violently) Exposure to heat from a fire, or from the water-dichlorosilane reaction can cause the dichlorosilane to autoignite. The acidic decomposition products formed by burning dichlorosilane from leaks may rapidly attack the metal at the leak area, especially if the metal is hot. |
| Other information | Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.) |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

| General measures | DANGER! Toxic, flammable, corrosive, liquid and gas under pressure. If leaking do not spray water (reacts violently). Evacuate personnel to a safe area. Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE). (gas tight, chemical-protective) Approach suspected leak area with caution. Remove all sources of ignition. Toxic, corrosive vapor can spread from spill. Contact with flammable materials may cause fire or explosion. Ventilate area or move container to a well-ventilated area. Before entering the area, especially a confined area, check the atmosphere with an appropriate device. |

6.1.1. For non-emergency personnel

| No additional information available |

6.1.2. For emergency responders

| No additional information available |

6.2. Environmental precautions

| Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements. |
6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment.

Ground/bond container and receiving equipment

Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g., wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

Safe use of the product: Do not breathe gas/vapors. Use only with adequate ventilation or respiratory protection. Do not get liquid or vapor in eyes, on skin, or on clothing. Have safety showers and eyewash fountains immediately available.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store only where temperature will not exceed 125°F (52°C). Post “No Smoking/No Open Flames” signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g., NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16.

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical</th>
<th>ACGIH</th>
<th>USA OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichlorosilane</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Use a corrosion-resistant local exhaust ventilation system with sufficient air flow velocity to maintain concentration below all applicable exposure limits in the worker’s breathing zone. Use in a closed system.
Eye protection: Provide readily accessible eye wash stations and safety showers. Wear safety glasses when handling cylinders; vapor-proof goggles and a face shield during cylinder changeout or whenever contact with product is possible. Select eye protection in accordance with OSHA 29 CFR 1910.133.

Skin and body protection: Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138.

Respiratory protection: When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Thermal hazard protection: Wear cold insulating gloves when transferring or breaking transfer connections.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Gas</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>101 g/mol</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless. Gives off white fumes in moist air.</td>
</tr>
<tr>
<td>Odor</td>
<td>Pungent.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (ether=1)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Melting point</td>
<td>-122 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>8.2 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>-52.2 °C TCC ASTM D56</td>
</tr>
<tr>
<td>Critical temperature</td>
<td>176 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>58 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>4.6 - 98 vol %</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>160 kPa</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>3.488</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.3</td>
</tr>
<tr>
<td>Relative gas density</td>
<td>3.5</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Log Kow</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>None.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas group</td>
<td>Liquefied gas</td>
</tr>
<tr>
<td>Additional information</td>
<td>Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level</td>
</tr>
</tbody>
</table>
SECTION 10: Stability and reactivity

10.1. Reactivity

REACTS VIOLENTLY WITH WATER. May explode or ignite. May ignite spontaneously in hot air or if it contacts a hot object.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

May occur.

10.4. Conditions to avoid

Avoid moisture in installation systems. Water, humidity. Do not allow contact with air. Avoid contact with alkali.

10.5. Incompatible materials

At room temperatures, this product may explode on contact with nitrates and other oxidizing agents. It reacts rapidly (exothermically) with alcohols, primary and secondary amines, ammonia, and other compounds containing active hydrogen atoms. REACTS VIOLENTLY WITH WATER. Will react violently with the water in aqueous acid solutions.

10.6. Hazardous decomposition products

Thermal decomposition or burning may produce: Chlorine. Hydrogen. Hydrogen chloride. Silicon oxides.

Dichlorosilane may redistribute under the influence of heat or catalysts, such as amines, rust, or aluminum chloride, to form mixtures of silane, monochlorosilane, trichlorosilane, and silicon tetrachloride. These mixtures may be pyrophoric (may ignite spontaneously when exposed to air or oxygen).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Inhalation: gas: FATAL IF INHALED.

Dichlorosilane ( fl )4109-96-0

<table>
<thead>
<tr>
<th>LC50 inhalation rat (ppm)</th>
<th>157 ppm/4h</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (gases)</td>
<td>157.000 ppmV/4h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

pH: Not applicable.

Serious eye damage/irritation: CAUSES SERIOUS EYE DAMAGE.

pH: Not applicable.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: No data available. No known ecological damage caused by this product.
12.2. Persistence and degradability

Dichlorosilane (4109-96-0)
Persistance and degradability Not applicable for inorganic gases.

12.3. Bioaccumulative potential

Dichlorosilane (4109-96-0)
Log Pow Not applicable.
Log Kow Not applicable.
Bioaccumulative potential No data available.

12.4. Mobility in soil

Dichlorosilane (4109-96-0)
Mobility in soil No data available.
Ecology - soil Because of its high volatility, the product is unlikely to cause ground or water pollution.

12.5. Other adverse effects

Other adverse effects May cause pH changes in aqueous ecological systems.
Effect on ozone layer None
Effect on the global warming No known effects from this product

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations Do not attempt to dispose of residual or unused quantities. Return container to supplier.

SECTION 14: Transport information

In accordance with DOT
Transport document description UN2189 Dichlorosilane, 2.3
UN-No.(DOT) UN2189
Proper Shipping Name (DOT) Dichlorosilane
Class (DOT) 2.3 - Class 2.3 - Poisonous gas 49 CFR 173.115
Hazard labels (DOT) 2.3 - Poison gas
8 - Corrosive

DOT Special Provisions (49 CFR 172.102) 2 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone B (see 173.116(a) or 173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter
B9 - Bottom outlets are not authorized
B14 - Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosion to steel when wet

Additional information
Emergency Response Guide (ERG) Number 119
Other information No supplementary information available.
Special transport precautions: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:
- Ensure there is adequate ventilation.
- Ensure that containers are firmly secured.
- Ensure cylinder valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.

Transport by sea
UN-No. (IMDG) : 2189
Proper Shipping Name (IMDG) : DICHLOROSILANE
Class (IMDG) : 2 - Gases
MFAG-No : 119

Air transport
UN-No. (IATA) : 2189
Proper Shipping Name (IATA) : Dichlorosilane
Class (IATA) : 2
Civil Aeronautics Law : Gases under pressure/Gases toxic under pressure

SECTION 15: Regulatory information
15.1. US Federal regulations
Dichlorosilane (4109-96-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
SARA Section 311/312 Hazard Classes
- Delayed (chronic) health hazard
- Fire hazard
- Immediate (acute) health hazard
- Reactive hazard
- Sudden release of pressure hazard

15.2. International regulations
CANADA
Dichlorosilane (4109-96-0)
Listed on the Canadian DSL (Domestic Substances List)

EU Regulations
Dichlorosilane (4109-96-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.2. National regulations
Dichlorosilane (4109-96-0)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSCQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations
Dichlorosilane(4109-96-0)
U.S. - California - Proposition 65 - Carcinogens List : No
U.S. - California - Proposition 65 - Developmental : No
**Dichlorosilane**

**Safety Data Sheet**


**Date of issue:** 01/01/1980  
**Revision date:** 10/17/2016  
**Supersedes:** 08/10/2016

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### Dichlorosilane (4109-96-0)

<table>
<thead>
<tr>
<th>Toxicity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</td>
<td>No</td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</td>
<td>No</td>
</tr>
</tbody>
</table>
| State or local regulations | U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List |

---

### SECTION 16: Other information

**Other information:** When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product.

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**NFPA health hazard:** 4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was given.

**NFPA fire hazard:** 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

**NFPA reactivity:** 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.

**NFPA specific hazard:** W - Unusual reactivity with water. This indicates a potential hazard using water to fight a fire involving this material.

---

**HMIS III Rating**

**Health:** 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

**Flammability:** 4 Severe Hazard

**Physical:** 3 Serious Hazard

EN (English US)  
SDS ID: P-4587  
9/10

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Dichlorosilane
Safety Data Sheet P-4587
Date of issue: 01/01/1980  Revision date: 10/17/2016  Supersedes: 08/10/2016

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.