

Safety Data Sheet SIC2336.0

Date of issue: 01/07/2015 Revision date: 08/04/2019 Version: 1.1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance
Physical state : Liquid

Substance name : 3-CHLOROPROPYLDIMETHYLCHLOROSILANE

Product code : SIC2336.0
Formula : C5H12Cl2Si

Synonyms : 3-DIMETHYLCHLOROSILYL-1-CHLOROPROPANE; CHLORO(3-

CHLOROPROPYL) DIMETHYLSILANE

Chemical family : CHLOROSILANE

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

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USA

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### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3

H226

Skin corrosion/irritation, Category 1B

H314

Serious eye damage/eye irritation, Category 1

H318

Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

# 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS02 GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

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Precautionary statements (CLP) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical equipment.

P260 - Do not breathe vapours.

P264 - Wash hands thoroughly after handling.

**EUH-statements** EUH014 - Reacts violently with water.

#### Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

#### 3.1. **Substances**

Substance type : Multi-constituent

Name : 3-CHLOROPROPYLDIMETHYLCHLOROSILANE

CAS-No. : 10605-40-0 EC-No. : 234-234-1

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-Chloropropyldimethylchlorosilane	(CAS-No.) 10605-40-0 (EC-No.) 234-234-1	> 95	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318
Other Organosilanes		< 5	Not classified

Full text of H-statements: see section 16

### **Mixtures**

Not applicable

# **SECTION 4: First aid measures**

#### 4.1. **Description of first aid measures**

First-aid measures general

Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical

advice.

First-aid measures after skin contact

: Wash with plenty of water/.... Get immediate medical advice/attention.

First-aid measures after eye contact

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion

Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### Most important symptoms and effects, both acute and delayed

Symptoms/effects

: Causes severe skin burns and eye damage.

Symptoms/effects after inhalation

May cause irritation to the respiratory tract. Overexposure may cause: Cough. Headache.

Nausea.

Symptoms/effects after skin contact : Causes (severe) skin burns. Symptoms/effects after eye contact : Causes serious eye damage. Symptoms/effects after ingestion : May be harmful if swallowed.

### 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 : Water spray. Foam. Carbon dioxide. Dry chemical.

: Water. Unsuitable extinguishing media

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard

: Flammable liquid and vapour. Irritating fumes of hydrochloric acid and organic acid vapors may develop when material is exposed to water or open flame.

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### 5.3. Advice for firefighters

Firefighting instructions : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid all eye and skin contact and do not breathe vapour and mist.

### SECTION 6: Accidental release measures

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

General measures : Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Do not attempt to take action without suitable

protective equipment. For further information refer to section 8: "Exposure controls/personal

protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or

shovel spills into appropriate container for disposal. Use only non-sparking tools.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in

process area to prevent formation of vapour. Take precautionary measures against static discharge. Containers must be properly grounded before beginning transfer. Use only non-

sparking tools.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wash contaminated clothing before reuse.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment. Proper grounding procedures to avoid static

electricity should be followed.

Storage conditions : Keep container tightly closed.

Incompatible materials : alcohols. Amines. Oxidizing agent.

Storage area : Store in a well-ventilated place. Store away from heat.

### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

# 8.2. Exposure controls

### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

### Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### Hand protection:

Neoprene or nitrile rubber gloves

### Eye protection:

Chemical goggles or face shield. Contact lenses should not be worn

### Skin and body protection:

Wear suitable protective clothing

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### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear liquid.
Molecular mass : 171.14 g/mol
Colour : Straw.
Odour : Acrid.

Odour threshold : No data available

Refractive index : 1.4488

pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available

Freezing point : < 0 °C Boiling point : 179 °C Flash point : 40 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour.

Vapour pressure : No data available

Relative vapour density at 20 °C : > 1
Relative density : 1.043

Solubility Reacts with water. Log Pow No data available No data available Log Kow Viscosity, kinematic No data available No data available Viscosity, dynamic Explosive properties No data available : No data available Oxidising properties **Explosive limits** : No data available

### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

# 10.2. Chemical stability

Stable in sealed containers stored under a dry inert atmosphere.

# 10.3. Possibility of hazardous reactions

Reacts with water and moisture in air, liberating hydrogen chloride.

# 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

alcohols. Amines. Oxidizing agent.

# 10.6. Hazardous decomposition products

Hydrogen chloride. Organic acid vapors.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified

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Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. Overexposure may cause: Cough. Headache.

Nausea.

Symptoms/effects after skin contact : Causes (severe) skin burns.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : May be harmful if swallowed.

Reason for classification : Expert judgment

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

### SECTION 13: Disposal considerations

# 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to licensed waste disposal facility.

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

# 14.1. UN number

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 2986 UN-No. (IMDG) : 2986 UN-No. (IATA) : 2986 UN-No. (ADN) : 2986 UN-No. (RID) : 2986

# 14.2. UN proper shipping name

Proper Shipping Name (ADR) : CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.
Proper Shipping Name (IMDG) : CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.

Proper Shipping Name (IATA) : Chlorosilanes, corrosive, flammable, n.o.s.

Proper Shipping Name (ADN) : CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S. Proper Shipping Name (RID) : CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S.

Transport document description (ADR) : UN 2986 CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S. (3-CHLOROPROPYLDIMETHYLCHLOROSILANE), 8 (3), II, (D/E)

Transport document description (IMDG) : UN 2986 CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S. (3-

CHLOROPROPYLDIMETHYLCHLOROSILANE), 8 (3), II

Transport document description (IATA) : UN 2986 Chlorosilanes, corrosive, flammable, n.o.s. (3-CHLOROPROPYLDIMETHYLCHLOROSILANE), 8 (3), II

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Transport document description (ADN) : UN 2986 CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S. (3-

CHLOROPROPYLDIMETHYLCHLOROSILANE), 8 (3), II

Transport document description (RID) : UN 2986 CHLOROSILANES, CORROSIVE, FLAMMABLE, N.O.S. (3-

CHLOROPROPYLDIMETHYLCHLOROSILANE), 8 (3), II

# 14.3. Transport hazard class(es)

# ADR

Transport hazard class(es) (ADR) : 8 (3)
Danger labels (ADR) : 8, 3



### **IMDG**

Transport hazard class(es) (IMDG) : 8 (3)
Danger labels (IMDG) : 8, 3



### IATA

Transport hazard class(es) (IATA) : 8 (3) Hazard labels (IATA) : 8, 3



# ADN

Transport hazard class(es) (ADN) : 8 (3)
Danger labels (ADN) : 8, 3



# RID

Transport hazard class(es) (RID) : 8 (3)
Danger labels (RID) : 8, 3



# 14.4. Packing group

 Packing group (ADR)
 : II

 Packing group (IMDG)
 : II

 Packing group (IATA)
 : II

 Packing group (ADN)
 : II

 Packing group (RID)
 : II

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### **Environmental hazards**

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

### Special precautions for user

### - Overland transport

Classification code (ADR) : CF1 Special provisions (ADR) : 548 Limited quantities (ADR) : 0 Excepted quantities (ADR) : E0 Packing instructions (ADR) : P010 : MP15 Mixed packing provisions (ADR) Portable tank and bulk container instructions : T14

(ADR)

Portable tank and bulk container special

provisions (ADR)

: TP2, TP7, TP27

: L4BN Tank code (ADR) : FL Vehicle for tank carriage Transport category (ADR) : 2 Special provisions for carriage - Operation : S2 (ADR)

Hazard identification number (Kemler No.) X83

Orange plates

X83 2986

: D/E

Tunnel restriction code (ADR)

EAC code APP code

4W : A(fl)

## - Transport by sea

Limited quantities (IMDG) 0 Excepted quantities (IMDG) : E0 Packing instructions (IMDG) : P010 Tank instructions (IMDG) T14

Tank special provisions (IMDG) : TP2, TP7, TP13, TP27

: F-E EmS-No. (Fire) EmS-No. (Spillage) : S-C : C Stowage category (IMDG) : SW2 Stowage and handling (IMDG)

Properties and observations (IMDG) Colourless, flammable liquids with a pungent odour. Immiscible with water. React violently with water or steam, evolving hydrogen chloride, an irritating and corrosive gas apparent as white

fumes. When involved in a fire, evolve toxic gas. In the presence of moisture, highly corrosive

to most metals. Cause burns to skin, eyes and mucous membranes.

### - Air transport

PCA Excepted quantities (IATA) : E0 PCA Limited quantities (IATA) : Forbidden : Forbidden PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) Forbidden : Forbidden PCA max net quantity (IATA) : 876 CAO packing instructions (IATA) CAO max net quantity (IATA) : 30L Special provisions (IATA) : A1 : 8F ERG code (IATA)

### - Inland waterway transport

Classification code (ADN) : CF1 Special provisions (ADN) : 548

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Limited quantities (ADN) : 0
Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EP, EX, A

Ventilation (ADN) : VE01 Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : CF1
Special provisions (RID) : 548
Limited quantities (RID) : 0
Excepted quantities (RID) : E0
Packing instructions (RID) : P010
Mixed packing provisions (RID) : MP15
Portable tank and bulk container instructions : T14

(RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : X83

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

: TP2, TP7, TP27

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

3-CHLOROPROPYLDIMETHYLCHLOROSILANE is not on the REACH Candidate List

3-CHLOROPROPYLDIMETHYLCHLOROSILANE is not on the REACH Annex XIV List

3-CHLOROPROPYLDIMETHYLCHLOROSILANE is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

3-CHLOROPROPYLDIMETHYLCHLOROSILANE is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

### 15.1.2. National regulations

### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting : The substance is not listed giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

NIET limitations list was used de veestalenti

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed

: The substance is not listed

Denmark

Class for fire hazard : Class II-1 Store unit : 5 liter

Classification remarks : R10 <H226;H314>; Emergency management guidelines for the storage of flammable liquids

must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

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# **SECTION 16: Other information**

#### Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

### Other information

: Prepared by safety and environmental affairs.

### Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
EUH014	Reacts violently with water.

# SDS EU (REACH Annex II) - Custom

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