

Creation Date 30-Nov-2010

Revision Date 30-Nov-2010

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description: Cyanopropylmethyldichlorosilane
Cat No. 432250000; 432250050; 432250250
Synonyms Dichloro(3-cyanopropyl)methylsilane

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

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
 Janssen Pharmaceuticaaan 3a
 2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01
 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300
 CHEMTREC Phone Number, Europe: 001-703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Skin Corrosion / irritation	Category 1 B
Serious Eye Damage/Eye Irritation	Category 1

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

Symbol(s)

C - Corrosive

R -phrase(s)

R14 - Reacts violently with water
 R29 - Contact with water liberates toxic gas
 R34 - Causes burns

Risk Combination Phrases

R21/22 - Harmful in contact with skin and if swallowed

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2. HAZARDS IDENTIFICATION

Label Elements



Signal Word

Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
EUH029 - Contact with water liberates toxic gas
EUH014 - Reacts violently with water

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P310 - Immediately call a POISON CENTER or doctor/ physician
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P402 + P404 - Store in a dry place. Store in a closed container

Other Hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
Cyanopropylmethyldichlorosilane 1190-16-5	EEC No. 214-717-3	>95	1190-16-5	C; R34 Xn; R21/22 R14, R29	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Acute Tox. 4 (H312) Acute Tox. 4 (H302) (EUH014) (EUH029)	-

For the full text of the R phrases mentioned in this Section, see Section 16

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4. FIRST AID MEASURES

Description of first aid measures

General Advice	If symptoms persist, call a physician Show this safety data sheet to the doctor in attendance
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Immediate medical attention is required
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes Immediate medical attention is required
Ingestion	Do not induce vomiting Call a physician or Poison Control Center immediately
Inhalation	Move to fresh air If breathing is difficult, give oxygen Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device Immediate medical attention is required
Protection of First-aiders	Use personal protective equipment
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant foam

Extinguishing media which must not be used for safety reasons

Contact with water liberates toxic gas

Special hazards arising from the substance or mixture

Combustible material Reacts violently with water Contact with water liberates toxic gas Containers may explode when heated Keep product and empty container away from heat and sources of ignition

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Thermal decomposition can lead to release of irritating gases and vapors

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not get in eyes, on skin, or on clothing.

Environmental precautions

Should not be released into the environment.

Methods and material for containment and cleaning up

Do not expose spill to water. Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

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7. HANDLING AND STORAGE

Precautions for Safe Handling

Use only under a chemical fume hood Wear personal protective equipment Keep away from open flames, hot surfaces and sources of ignition Do not breathe vapors or spray mist Do not get in eyes, on skin, or on clothing Do not ingest Do not allow contact with water

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place Keep away from heat and sources of ignition Keep away from water Corrosives area

Specific End Uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls

Engineering Measures

Use only under a chemical fume hood Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment

Eye Protection

Safety glasses with side-shields

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

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

Hygiene Measures

When using, do not eat, drink or smoke Provide regular cleaning of equipment, work area and clothing

Environmental exposure controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid

Appearance

Pale yellow

odor

Acrid

pH

No information available.

Vapor Pressure

<1 mmHg @ 25°C

Vapor Density

Heavier than air

Boiling Point/Range

93 - 94°C / 199.4 - 201.2°F @ 8mmHg

Melting Point/Range

No information available.

Flash Point

92°C / 197.6°F

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9. PHYSICAL AND CHEMICAL PROPERTIES

Autoignition Temperature	No information available.
Water Solubility	Water reactive
Specific Gravity	1.302
Molecular Formula	C5 H9 Cl2 N Si
Molecular Weight	182.13

10. STABILITY AND REACTIVITY

Reactivity

Reactive Hazard Yes

Chemical Stability

Reacts violently with water.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions . Contact with water liberates toxic gas.

Conditions to Avoid

Incompatible products, Heat, flames and sparks, Exposure to moist air or water.

Incompatible Materials

Strong oxidizing agents, Strong bases, Water.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride gas. Silicon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component Information

Component

Cyanopropylmethyldichlorosilane

LD50 Oral	LD50 Dermal	LC50 Inhalation
650 mg/kg (Rat)	1490 µL/kg (Rabbit)	21600mg/m ³ /2H (Rat)

Chronic Toxicity

Carcinogenicity

There are no known carcinogenic chemicals in this product

Sensitization

No information available.

Mutagenic Effects

No information available

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Reproductive Effects	No information available.
Developmental Effects	No information available.
Target Organs	Skin Respiratory system Eyes Gastrointestinal tract (GI)
Other Adverse Effects	See actual entry in RTECS for complete information
Endocrine Disruptor Information	None known

12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	UN2987
Hazard Class	8
Packing Group	II
Proper Shipping Name	Chlorosilanes, corrosive, n.o.s

ADR

UN-No	UN2987
Hazard Class	8
Packing Group	II

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14. TRANSPORT INFORMATION

Proper Shipping Name Chlorosilanes, corrosive, n.o.s

IATA

UN-No UN2987
Hazard Class 8
Packing Group II
Proper Shipping Name Chlorosilanes, corrosive, n.o.s

15. REGULATORY INFORMATION

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

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Cyanopropylmethyldichlorosilane	214-717-3	-		X	-	X	-	-	-	X	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory Lists
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
AICS - Inventory of Chemical Substances
KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3

R14 - Reacts violently with water
R29 - Contact with water liberates toxic gas
R34 - Causes burns
R21/22 - Harmful in contact with skin and if swallowed

Revision Date 30-Nov-2010
Revision Summary Not applicable
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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16. OTHER INFORMATION**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheet