

Safety Data Sheet SIC2454.0 Date of issue: 26/11/2014 Revision date: 08/04/2019

Version: 1.1

Enabling Your Technology			
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-CYANOPROPYLTRI	CHLOROSILANE	
Product code	: SIC2454.0		
Formula	: C4H6Cl3NSi		
Synonyms		BUTYRONITRILE; 4-CYANOBUTYLTRICHLOROSILANE	
Chemical family	: ORGANOCHLOROSIL	ANE	
1.2. Relevant identified uses of the	substance or mixture and use	s 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 same	afety data sheet		
GELEST, INC.	noty data onoor		
11 East Steel Road			
Morrisville, PA 19067 USA			
T 215-547-1015 - F 215-547-2484 - (M-F):	8:00 AM - 5:30 PM EST		
info@gelest.com - www.gelest.com			
GELEST INC.			
Fritz-Klatte-Strasse 8			
65933 Frankfurt			
Germany	F2F400 F04 (M F): 0:00 AM 4	-00 PM	
T +49 (0) 69 3535106-500 - F +49 (0) 69 3 info@gelestde.com - www.gelestde.com	535106-501 - (M-F): 8:00 AM - 4	:00 PM	
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-42	4-9300 (USA); +1 703-527-3887 (International)	
SECTION 2: Hazards identificati	on		
2.1. Classification of the substance	or mixture		
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Skin corrosion/irritation, Category 1B	H3	14	
Serious eye damage/eye irritation, Categor			
Full text of H statements : see section 16	-		
Adverse physicochemical, human healt	h and environmental effects		
No additional information available			
2.2. Label elements			
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]		
Hazard pictograms (CLP)	· · · · · · · · · · · · · · · · · · ·		
	\mathbf{V}		
	GHS05		
Signal word (CLP)	: Danger		
Hazard statements (CLP)		skin burns and eye damage.	
Precautionary statements (CLP)	: P280 - Wear protective P260 - Do not breathe	gloves/protective clothing/eye protection/face protection.	
		vapours. proughly after handling.	
Print date: 11/04/2019	EN (English)	SDS ID: SIC2454.0	1/9

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P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

Other hazards not contributing to the classification

: GHS UN classification. Acute toxicity (oral), Category 5. May be harmful if swallowed.

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Substance type	: Mono-constituent		
Name	: 3-CYANOPROPYLTRICHLOROSILANE		
CAS-No.	: 1071-27-8		
EC-No.	: 213-990-6		

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-Cyanopropyltrichlorosilane	(CAS-No.) 1071-27-8 (EC-No.) 213-990-6	95 - 100	Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of H-statements: see section 16

3.2. Mixtures		
Not applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measure	S	
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. Immediately call a POISON CENTER/doctor.	
4.2. Most important symptoms and o	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.	
4.3. Indication of any immediate me	dical attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measure	95	
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: Combustible liquid. Irritating fumes of hydrogen chloride and organic acid vapors may develop when material is exposed to water or open flame.	
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.	

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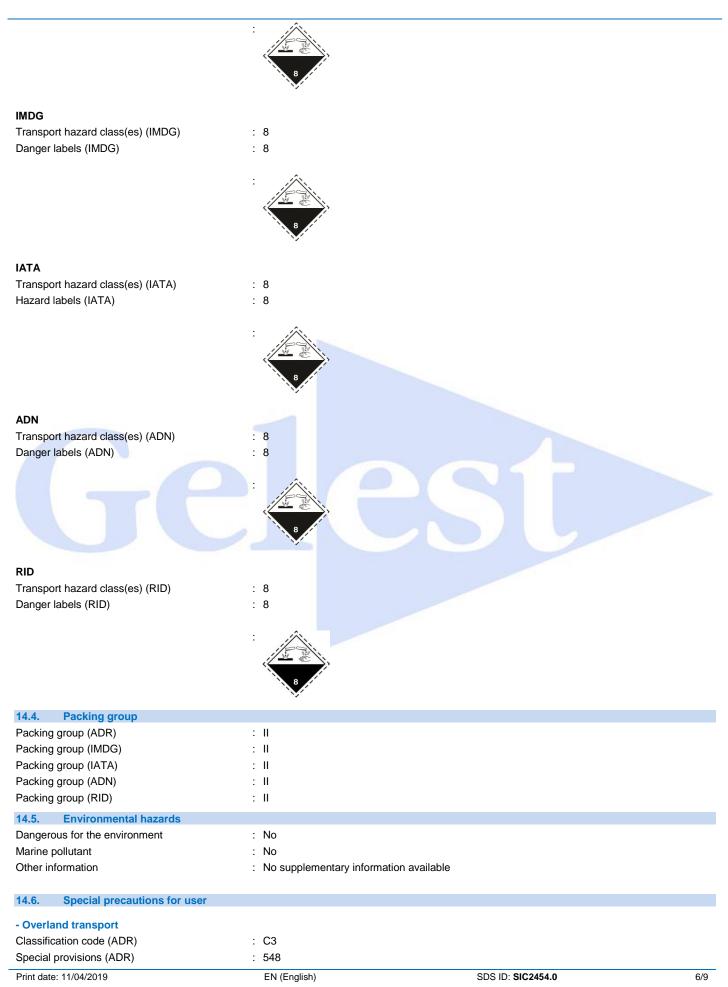
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures			
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection.		
6.2. Environmental precautions			
,	tify authorities if liquid enters sewers or public waters.		
6.3. Methods and material for contain			
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 persor	nal 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. Containers and transfer lines require grounding during use. Use only non-sparking tools.		
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands thoroughly after handling.		
7.2. Conditions for safe storage, inclu	ding any incompatibilities		
Technical measures	: 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/pe	rsonal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls:			
Provide local exhaust or general room ventilat	ion.		
Personal protective equipment:			
Avoid all unnecessary exposure. Emergency e exposure.	Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential		
Hand protection:			
Neoprene or nitrile rubber gloves			
Eve protection:			
Eye protection: Chemical goggles or face shield. Contact lenses should not be worn			
Skin and body protection:			
Wear suitable protective clothing			
Respiratory protection:			
NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.			
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	d chemical properties		
Physical state	: Liquid		
Appearance	: Clear liquid.		
Molecular mass	: 202.54 g/mol		
Colour	: Straw.		

: Acrid. Similar to hydrogen chloride.

Odour

Odour threshold	: No data available	
Refractive index	: 1.465	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: <0°C	
Boiling point	: 93 - 94 °C @ 8 mm Hg	
Flash point	: 75 °C	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Combustible liquid	
Vapour pressure	: <1 mm Hg @ 25°C	
Relative vapour density at 20 °C	: >1	
Relative density	: 1.302	
Solubility	: Reacts with water.	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
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 i	nert 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 product	S	
Hydrogen chloride. Organic acid vapors.		
SECTION 11: Toxicological informa		
11.1. Information on toxicological effects	S	
Acute toxicity	: Not classified	
3-Cyanopropyltrichlorosilane (1071-27-8)		
LD50 oral rat	2170 mg/kg	
ATE CLP (oral)	2170 mg/kg bodyweight	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
-		
STOT-single exposure	: Not classified	
STOT-single exposure STOT-repeated exposure Aspiration hazard	: Not classified : Not classified : 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.		
SECTION 12: Ecological informatic	on	
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 assessn	nent	
No additional information available		
12.6. Other adverse effects		
Other adverse effects	: This substance may be hazardous to the environment.	
SECTION 13: Disposal consideration	ons	
13.1. Waste treatment methods		
	May be incinerated. Dispose in a safe manner in accordance with local/national regulations.	
Product/Packaging disposal recommendations		
	Dispose of contents/container to licensed waste disposal facility.	
Product/Packaging disposal recommendations Ecology - waste materials		
	Dispose of contents/container to licensed waste disposal facility. : Avoid release to the environment.	
Ecology - waste materials	Dispose of contents/container to licensed waste disposal facility. : Avoid release to the environment.	
Ecology - waste materials SECTION 14: Transport information	Dispose of contents/container to licensed waste disposal facility. : Avoid release to the environment. n	
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Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P010
Special packing provisions (ADR)	: RR7
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T14
Portable tank and bulk container special provisions (ADR)	: TP2, TP7, TP27
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: X80
Orange plates	X80 2987
Tunnel restriction code (ADR)	: E
EAC code	: 4W
- 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
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: C
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Colourless 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 gases. In the presence of moisture, highly corrosive to most metals. Cause burns to skin, eyes and mucous membranes.
A in Anomaly	
- Air transport	: E0
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: 876
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A1
ERG code (IATA)	: 8L
- Inland waterway transport	
Classification code (ADN)	: C3
Special provisions (ADN)	: 548
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport Classification code (RID)	: C3
Special provisions (RID)	: 548
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P010
Mixed packing provisions (RID)	: MP15

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Portable tank and bulk container instructions (RID)	: T14
Portable tank and bulk container special provisions (RID)	: TP2, TP7, TP27
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: X80

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

3-CYANOPROPYLTRICHLOROSILANE is not on the REACH Candidate List

3-CYANOPROPYLTRICHLOROSILANE is not on the REACH Annex XIV List

3-CYANOPROPYLTRICHLOROSILANE 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-CYANOPROPYLTRICHLOROSILANE 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

Germany		
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (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 giftige stoffen – Borstvoeding	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	¢	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	The substance is not listed
Denmark		
Class for fire hazard	:	Class III-1
Store unit	:	50 liter
Classification remarks	:	Flammable according to the Danish Ministry of Justice; 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

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
	Skin Corr. 1B	Skin corrosion/irritation, Category 1B
	H314	Causes severe skin burns and eye damage.
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H318

Causes serious eye damage.

SDS EU (REACH Annex II) - Custom

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

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