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CHEMICALS, INC.

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<b>SECTION</b>	1: Identification of the substance/mixtu	re and of the company/undertaking
		in c and of the company/anacranting
1.1 Product	•	
	Ethyltrichlorosilane, 98%	
Item number CAS Numbe		
115-21-9		
<b>EC number:</b> 204-072-6		
	identified uses of the substance or mixture and	uses advised against
No further re	levant information available.	-
	the supplier of the safety data sheet	
Manufactur Strem Chemi		
7 Mulliken W	lay	
NEWBURYP USA	ORT, MA 01950	
info@strem.o	om	
Further info	rmation obtainable from: Technical Department	t
	cy telephone number:	
	<i>Y: CHEMTREC:</i> + 1 (800) 424-9300 al opening times: +1 (978) 499-1600	
0		
SECTION	2: Hazards identification	
	ttion of the substance or mixture 1 according to Regulation (EC) No 1272/2008	
Classificatio	tion of the substance or mixture	
Classificatio	tion of the substance or mixture according to Regulation (EC) No 1272/2008	
Classificatio	ation of the substance or mixture a according to Regulation (EC) No 1272/2008 ISO2 flame	
Classificatio Gl Flam. Liq. 2	ation of the substance or mixture a according to Regulation (EC) No 1272/2008 ISO2 flame H225 Highly flammable liquid and vapour.	ge.
Classificatio Gl Flam. Liq. 2 Control Control 11 Control 11	ation of the substance or mixture a according to Regulation (EC) No 1272/2008 ISO2 flame H225 Highly flammable liquid and vapour. ISO5 corrosion H314 Causes severe skin burns and eye dama	ge.
Classificatio Gl Flam. Liq. 2 Control Control 11 Control 11	tion of the substance or mixture a according to Regulation (EC) No 1272/2008 IS02 flame H225 Highly flammable liquid and vapour. IS05 corrosion	ge.
Classificatio Gl Flam. Liq. 2 Control Control Skin Corr. 11 Control Control Gl	ation of the substance or mixture a according to Regulation (EC) No 1272/2008 IS02 flame H225 Highly flammable liquid and vapour. IS05 corrosion B H314 Causes severe skin burns and eye dama, IS07	ge.
Classificatio Gl Flam. Liq. 2 Control Control Skin Corr. 11 Control Control Gl Acute Tox. 4	ation of the substance or mixture a according to Regulation (EC) No 1272/2008 ISO2 flame H225 Highly flammable liquid and vapour. ISO5 corrosion H314 Causes severe skin burns and eye dama, ISO7 H302 Harmful if swallowed.	ge.
Classificatio Gl Flam. Liq. 2 Construction Gl Skin Corr. 11 Construction Gl Acute Tox. 4 Acute Tox. 4	ation of the substance or mixture a according to Regulation (EC) No 1272/2008 ISO2 flame H225 Highly flammable liquid and vapour. ISO5 corrosion B H314 Causes severe skin burns and eye dama, ISO7 H302 Harmful if swallowed. H332 Harmful if inhaled.	ge.
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Classificatio Classificatio Gl Flam. Liq. 2 Gl Skin Corr. 11 Corr. 11 Corr. 4 Acute Tox. 4	tion of the substance or mixture a according to Regulation (EC) No 1272/2008 ISO2 flame H225 Highly flammable liquid and vapour. ISO5 corrosion H314 Causes severe skin burns and eye dama ISO7 H302 Harmful if swallowed. H332 Harmful if inhaled. ments cording to Regulation (EC) No 1272/2008 e is classified and labelled according to the CLP	
Classificatio Gl Flam. Liq. 2 Flam. Liq. 2 Gl Skin Corr. 11 Corr. 11 Corr. 4 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Acute Tox. 4	tion of the substance or mixture a according to Regulation (EC) No 1272/2008 ISO2 flame H225 Highly flammable liquid and vapour. ISO5 corrosion H314 Causes severe skin burns and eye dama ISO7 H302 Harmful if swallowed. H332 Harmful if inhaled. ments cording to Regulation (EC) No 1272/2008 e is classified and labelled according to the CLP	
Classificatio Classificatio Gl Flam. Liq. 2 Gl Skin Corr. 11 Corr. 11 Corr. 4 Acute Tox. 4	tion of the substance or mixture a according to Regulation (EC) No 1272/2008 ISO2 flame H225 Highly flammable liquid and vapour. ISO5 corrosion H314 Causes severe skin burns and eye dama ISO7 H302 Harmful if swallowed. H332 Harmful if inhaled. ments cording to Regulation (EC) No 1272/2008 e is classified and labelled according to the CLP	
Classificatio Classificatio Gl Flam. Liq. 2 Gl Skin Corr. 11 Corr. 11 Corr. 4 Acute Tox. 4	tion of the substance or mixture a according to Regulation (EC) No 1272/2008 ISO2 flame H225 Highly flammable liquid and vapour. ISO5 corrosion H314 Causes severe skin burns and eye dama ISO7 H302 Harmful if swallowed. H332 Harmful if inhaled. ments cording to Regulation (EC) No 1272/2008 e is classified and labelled according to the CLP	
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Classificatio Gl Flam. Liq. 2 Flam. Liq. 2 Gl Skin Corr. 11 Corr. 11 Corr. 11 Corr. 4 Acute Tox. 4 Acute Tox. 4 2.2 Label ele Labelling ac The substance Hazard picto	tion of the substance or mixture according to Regulation (EC) No 1272/2008 IS02 flame H225 Highly flammable liquid and vapour. IS05 corrosion B H314 Causes severe skin burns and eye dama, IS07 H302 Harmful if swallowed. H332 Harmful if inhaled. ments cording to Regulation (EC) No 1272/2008 e is classified and labelled according to the CLP grams	

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Trade name: Ethyltrichlorosilane, 98%

Signal word Da	(Contd. of page 1)
Hazard-determ	ining components of labelling:
trichloro(ethyl)	
Hazard stateme	ents
H225 Hi	ighly flammable liquid and vapour.
Н302+Н332 На	armful if swallowed or if inhaled.
Н314 Са	auses severe skin burns and eye damage.
Precautionary s	statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P231	Handle under inert gas.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
<i>P305+P351+P</i> .	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazar	•
<b>Results of PBT</b>	and vPvB assessment
PBT: Not appli	
vPvB: Not appl	
<i>pp</i>	

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

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 115-21-9 trichloro(ethyl)silane
- Identification number(s)
- EC number: 204-072-6

## **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:
- Call for a doctor immediately.
- Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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#### • **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

· Suitable extinguishing agents:

- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- $\cdot$  6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation.
- 6.4 Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

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

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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8.1 Control parameters	• • • • • • • • • • • •
	<i>quire monitoring at the workplace:</i> Not required. Iid during the making were used as basis.
0	ia auring the making were used as basis.
8.2 Exposure controls	
Personal protective equipment: General protective and hygienic mea	1011400
Keep away from foodstuffs, beverages	
Immediately remove all soiled and co	
Wash hands before breaks and at the	end of work.
Avoid contact with the eyes and skin.	
Respiratory protection:	
In case of brief exposure or low pollu self-contained respiratory protective of	ttion use respiratory filter device. In case of intensive or longer exposure
Protection of hands:	aevice.
Protective gloves	
The glove material has to be imperme	eable and resistant to the product/ the substance/ the preparation.
	tion to the glove material can be given for the product/ the preparation/
chemical mixture.	
	nsideration of the penetration times, rates of diffusion and the degradation
Material of gloves	
The selection of the suitable gloves de	
The selection of the suitable gloves devaries from manufacturer to manufac	
The selection of the suitable gloves devaries from manufacturer to manufac Penetration time of glove material	eturer.
The selection of the suitable gloves devaries from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to	eturer.
The selection of the suitable gloves devaries from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to observed.	cturer.
The selection of the suitable gloves de varies from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to observed.	cturer.
The selection of the suitable gloves de varies from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to observed. <b>Eye protection:</b>	eturer.
The selection of the suitable gloves de varies from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to observed.	cturer.
The selection of the suitable gloves de varies from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to observed. <b>Eye protection:</b>	cturer.
The selection of the suitable gloves de varies from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to observed. <b>Eye protection:</b> Tightly sealed goggles	eturer.
The selection of the suitable gloves de varies from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to observed. <b>Eye protection:</b> Tightly sealed goggles 9.1 Information on basic physical an	eturer.
The selection of the suitable gloves de varies from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to observed. <b>Eye protection:</b> Tightly sealed goggles 9.1 Information on basic physical an General Information	eturer.
The selection of the suitable gloves de varies from manufacturer to manufac <b>Penetration time of glove material</b> The exact break through time has to observed. <b>Eye protection:</b> Tightly sealed goggles 9.1 Information on basic physical an General Information Appearance: Form:	eturer.
The selection of the suitable gloves de varies from manufacturer to manufac Penetration time of glove material The exact break through time has to observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical an General Information Appearance: Form: Colour:	eturer. To be found out by the manufacturer of the protective gloves and has to ad chemical properties Liquid Colourless
The selection of the suitable gloves devaries from manufacturer to manufac Penetration time of glove material The exact break through time has to observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour:	eturer. o be found out by the manufacturer of the protective gloves and has to <b>Id chemical properties</b> Liquid Colourless Pungent
The selection of the suitable gloves de varies from manufacturer to manufac Penetration time of glove material The exact break through time has to observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour:	eturer. To be found out by the manufacturer of the protective gloves and has to ad chemical properties Liquid Colourless Pungent Not determined.
The selection of the suitable gloves de varies from manufacturer to manufac Penetration time of glove material The exact break through time has to observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold:	eturer. o be found out by the manufacturer of the protective gloves and has to <b>Id chemical properties</b> Liquid Colourless Pungent
The selection of the suitable gloves devaries from manufacturer to manufacture has to observed. Eye protection: Eye protection: Tightly sealed goggles 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition	eturer. To be found out by the manufacturer of the protective gloves and has to ad chemical properties Liquid Colourless Pungent Not determined. Not determined.
The selection of the suitable gloves devaries from manufacturer to manufacture the exact break through time has to observed. Eye protection: Eye protection: Tightly sealed goggles 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point:	eturer. To be found out by the manufacturer of the protective gloves and has to ad chemical properties Liquid Colourless Pungent Not determined. Not determined. Undetermined.
The selection of the suitable gloves devaries from manufacturer to glove material The exact break through time has to observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour threshold: pH-value: Change in condition	eturer. To be found out by the manufacturer of the protective gloves and has to ad chemical properties Liquid Colourless Pungent Not determined. Not determined. Undetermined.
The selection of the suitable gloves de varies from manufacturer to manufac Penetration time of glove material The exact break through time has to observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat	o be found out by the manufacturer of the protective gloves and has to <b>Id chemical properties</b> Liquid Colourless Pungent Not determined. Not determined. Undetermined.
The selection of the suitable gloves devaries from manufacturer to manufact Penetration time of glove material The exact break through time has to observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour: PH-value: Change in condition Melting point/freezing point:	eturer. To be found out by the manufacturer of the protective gloves and has to ad chemical properties Liquid Colourless Pungent Not determined. Not determined. Indetermined. ge: 98.8 °C
The selection of the suitable gloves de varies from manufacturer to manufac Penetration time of glove material The exact break through time has to observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rate Flash point:	eturer. b be found out by the manufacturer of the protective gloves and has to ad chemical properties Liquid Colourless Pungent Not determined. Not determined. Indetermined. age: 98.8 °C -10 °C

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	(Contd. of page -
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1.238 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
VOC(EC)	0.00 %
9.2 Other information	No further relevant information available.

## SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed or if inhaled.

· LD/LC50 values relevant for classification:

#### 115-21-9 trichloro(ethyl)silane

*Oral LD50 1330 mg/kg (rat)* 

- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- · Serious eye damage/irritation
- Causes severe skin burns and eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot \textit{Carcinogenicity} Based on available data, the classification criteria are not met.$
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- $\cdot$  12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number		
ADR, IMDG, IATA	UN1196	
14.2 UN proper shipping name		
ADR	1196 ETHYLTRICHLOROSILANE	
IMDG, IATA	ETHYLTRICHLOROSILANE	
14.3 Transport hazard class(es) ADR		
Class	3 Flammable liquids.	

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	(Contd. of page
Label	3+8
IMDG	
3 8	
Class	3 Flammable liquids.
Label	3/8
IATA	
3	
Class	3 Flammable liquids.
Label	3 (8)
14.4 Packing group	
ADR, IMDĞ, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	X338
Stowage Category	
Stowage Code	SW2 Clear of living quarters.
14.7 Transport in bulk according to Anne	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
Transa and a star a set	Not permitted as Excepted Quantity
Transport category Tunnel restriction code	2 D/E
IMDG Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
Lacepica quantation (DQ)	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1196 ETHYLTRICHLOROSILANE, 3 (8), II

## SECTION 15: Regulatory information

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

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

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• **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B