Printing date 07/20/2021

Reviewed on 07/20/2021

1 Identification

- · Product name
- · Trade name: 3-Chloropropyltrimethoxysilane, min. 97%
- Item number: 93-1404
- · CAS Number:
- 2530-87-2
- *EC number:* 219-787-9
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Strem Chemicals, Inc.
 7 Mulliken Way
- NEWBURYPORT, MA 01950 USA info@strem.com
- · Information department: Technical Department
- Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements
- *The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms*



· Signal word Warning

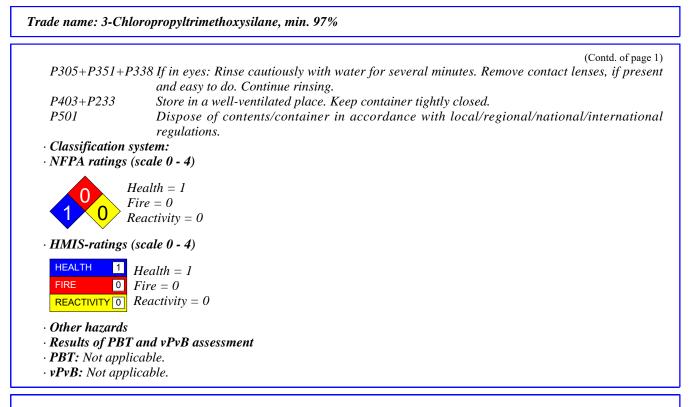
Hazard-determining components of labeling:
3-chloropropyltrimethoxysilane
Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary statements
P231 Handle under inert gas.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

[–] US

Printing date 07/20/2021

Reviewed on 07/20/2021



3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 2530-87-2 3-chloropropyltrimethoxysilane
- · Identification number(s)
- · EC number: 219-787-9

4 First-aid measures

- · Description of first aid measures
- · After inhalation: 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. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

Printing date 07/20/2021

Reviewed on 07/20/2021

Trade name: 3-Chloropropyltrimethoxysilane, min. 97%

- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- **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.
- · Protective Action Criteria for Chemicals

• PAC-1:

0.64 ppm

· PAC-2:

· PAC-3:

160 ppm

7 ppm

7 Handling and storage

- · Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

(Contd. on page 4)



(Contd. of page 2)

Printing date 07/20/2021

Reviewed on 07/20/2021

Trade name: 3-Chloropropyltrimethoxysilane, min. 97%

raae name: 5-Chioropropyurimeinoxysuane, min. 97%
(Contd. of page 3) Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. • Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134. • Protection of hands:
Protective gloves
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
• Eye protection: Tightly sealed goggles
9 Physical and chemical properties
 Information on basic physical and chemical properties General Information Appearance:

Appearance:		
Form:	Liquid	
Color:	Colorless	
• Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	183 °C (361 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
		(Contd. on page



Printing date 07/20/2021

Reviewed on 07/20/2021

Trade name: 3-Chloropropyltrimethoxysilane, min. 97%

		(Contd. of page 4
· Vapor pressure:	Not determined.	
• Density at 20 •C (68 •F):	1.077 g/cm ³ (8.98757 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wo	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	$0.0 \ g/l \ / \ 0.00 \ lb/gl$	
• Other information	No further relevant information available.	

10 Stability and reactivity

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

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

- · OSHA-Ca (Occupational Safety & Health Administration)
- Substance is not listed.

(Contd. on page 6)



Printing date 07/20/2021

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Reviewed on 07/20/2021

Trade name: 3-Chloropropyltrimethoxysilane, min. 97%

(Contd. of page 5)

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- · *PBT:* Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

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

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(Contd. on page 7)

Printing date 07/20/2021

CHEMICALS.

Reviewed on 07/20/2021

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(Contd. of page 6)

15 Regulatory information

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

• Section 355 (extremely hazardous substances):

Substance is not listed.

• Section 313 (Specific toxic chemical listings):

Substance is not listed.

• TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

 \cdot NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

• Hazard-determini	ng components of labeling:
3-chloropropyltrin	nethoxysilane
· Hazard statements	
H315 Causes skin	irritation.
H319 Causes serie	pus eye irritation.
H335 May cause r	espiratory irritation.
· Precautionary stat	tements
P231	Handle under inert gas.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 8)

US

Printing date 07/20/2021

CHEMICALS, INC.

Reviewed on 07/20/2021

ade name: 3-Chlo	oropropyltrimethoxysilane, min. 97%
	(Contd. of page
<i>P305+P351+P</i> .	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese 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/internation
1 501	regulations.
Chamical safet	v assessment: A Chemical Safety Assessment has not been carried out.
· Chemical sajely	<i>ussessment:</i> A Chemical Safety Assessment has not been carried out.
6 Other inform	ation
	on is based on our present knowledge. However, this shall not constitute a guarantee for a t features and shall not establish a legally valid contractual relationship.
· Department issi	uing SDS: Technical Department.
· Contact: Techni	
	ntion / last revision 07/20/2021 / -
• Abbreviations a	
	péen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation
	ous Goods by Road)
	Il Maritime Code for Dangerous Goods
DOT: US Departme	Air Transport Association
	Conference of Governmental Industrial Hygienists
	Inventory of Existing Commercial Chemical Substances
·	tracts Service (division of the American Chemical Society)
	re Protection Association (USA)
	Materials Identification System (USA)
	nic Compounds (USA, EU)
	paccumulative and Toxic
vPvB: very Persister	nt and very Bioaccumulative
NIOSH: National In	istitute for Occupational Safety
OSHA: Occupation	al Safety & Health
TLV: Threshold Lim	
PEL: Permissible E	
REL: Recommended	
	prrosion/irritation – Category 2
Ena Innit 24. Camios	us eye damage/eye irritation – Category 2A
	c target organ toxicity (single exposure) – Category 3