

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name: 2-Chloroethyl isocyanate Product Code: GEO-03982 CAS-No. : 1943-83-5

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Company Identification: Georganics Ltd., Koreničova 1, 811 03 Bratislava, Slovak Republic

Phone Number: +421 33 6403132, Fax Number: +421 33 6403133, E-mail address: georganics@georganics.sk

1.4 Emergency Number Slovakia: National Toxicological Information Centre Tel: +421-2-54774166, Mob: +421 911 166 066

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Skin irritation (Category 2), H315	Eye irritation (Category 2), H319 Respiratory sensitisation (Category 1), H334 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
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2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

GHS pictogram:



Signal word:

Danger

H226 - Flammable liquid and vapour.
H301 + H331 - Toxic if swallowed or if inhaled.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
P261 - Avoid breathing vapours.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P311 - Call a POISON CENTER /doctor.

2.3 Other hazards

Lachrymator

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	Formula	Molecular Weight	CAS#	EC-No.
	C3H4CLNO	105.52g/mol	1943-83-5	217-734-4
Hazardous ingredients according to Regulation (EC) No 1272/2008				
Component	Classification		Concentration	
2-Chloroethyl isocyanate				
CAS#: 1943-83-5 EC-No: 217-734-4	Flam. Liq. 3; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; H226, H301, H331, H315, H319, H334, H335		<= 100%	

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture - During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters - Wear self-contained breathing apparatus and protective clothing to prevent contact with skin/eyes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** - Wear protective equipment. Ensure adequate ventilation. Keep unprotected persons away. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash spill site after material pickup is complete.
- 6.2 Environmental precautions** - Prevent further leakage or spillage if safe to do so. Do not let this chemical enter the environment.
- 6.3 Methods and materials for containment and cleaning up** - Dispose of contaminated material as waste according to section 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 information on disposal.

SECTION 7 - HANDLING AND STORAGE

- 7.1 Precautions for safe handling** - Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Ensure adequate ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities** - Store in a dry, cool and well ventilated place. Keep container closed when not in use. Recommended storage temperature 2 - 8 °C. Handle and store under inert gas. Moisture sensitive. See Section 10 for stability and reactivity information.
- 7.3 Specific end use(s)** - No further relevant information available

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Control parameters****8.2 Exposure controls**

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Safety shower and eye bath.

Personal Protective Equipment

Eyes: Wear chemical safety glasses.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective work clothing.

Respirators: Use breathing protection with high concentrations.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Form:	Liquid	Flash Point:	56 °C - closed cup
Color:	Not available	Specific Gravity/Density:	Not available
Boiling Point:	141 - 142 °C - lit.	Molecular Formula:	C3H4CLNO
Freezing/Melting Point:	Not available	Molecular Weight:	105.52

9.2 Other safety information - Not available**SECTION 10 - STABILITY AND REACTIVITY**

- 10.1 Reactivity** - No information known.
- 10.2 Chemical stability** - Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions** - Not available
- 10.4 Conditions to avoid** - Heat, flames and sparks.
- 10.5 Incompatible materials** - Alcohols, Strong bases, Amines, acids, Strong oxidizing agents
- 10.6 Hazardous decomposition products** - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

SECTION 11 - TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute toxicity - No data

LD/LC50 values that are relevant for classification - No data

Skin irritation or corrosion - Causes skin irritation

Eye irritation or corrosion - Causes serious eye irritation.

Sensitization - No sensitizing effect known.

Germ cell mutagenicity - No data available

Carcinogenicity - No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity - No effects known.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single exposure: May cause respiratory irritation.

Aspiration hazard - No effects known.

Subacute to chronic toxicity - No effects known.

Additional toxicological information - The toxicological properties have not been fully investigated.

SECTION 12 - ECOLOGICAL INFORMATION

- 12.1 Toxicity** - No data available
12.2 Persistence and degradability - No data available
12.3 Bioaccumulative potential - No data available
12.4 Mobility in soil - No data available
12.5 Results of PBT and vPvB assessment - PBT/vPvB Not applicable.
12.6 Other adverse effects - No data available

SECTION 13 - DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal

Contaminated packaging

Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

- 14.1 UN number:** ADR/RID: 2478 IMDG: 2478 IATA: 2478
14.2 UN proper shipping name:
ADR/RID: ISOCYANATE, FLAMMABLE, TOXIC, N.O.S. (2-Chloroethyl isocyanate)
IMDG: ISOCYANATE, FLAMMABLE, TOXIC, N.O.S. (2-Chloroethyl isocyanate)
IATA: ISOCYANATE, FLAMMABLE, TOXIC, N.O.S. (2-Chloroethyl isocyanate)
14.3 Transport hazard class(es)
ADR/RID: 3 (6.1) IMDG: 3 (6.1) IATA: 3 (6.1)
14.4 Packaging group
ADR/RID: III IMDG: III IATA: III
14.5 Environmental hazards

SECTION 15 - REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** - This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.2 Chemical safety assessment - For this product a chemical safety assessment was not carried out

SECTION 16 - OTHER INFORMATION

The information contained in the SDS are compiled according to the present knowledge of the manufacturer. It does not represent any guarantee of the properties of the product. SDS shall be used only as a guide. Georganics Ltd. is not liable for damages incurred in the handling or contact with chemicals.