



## SAFETY DATA SHEET

**4-CHLORO-2-FLUOROPHENYL ISOCYANATE**


Version 2, Revision: 14/03/2018

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**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

<b>Company Identification:</b>	<b>Georganics Ltd.</b> Koreničova 1 811 03 Bratislava Slovak Republic	Phone Number: +421 33 6403132 Fax Number: +421 33 6403133 E-mail address: georganics@georganics.sk
<b>Emergency Number, Slovakia:</b>	National Toxicological Information Centre Tel: 00421-2-54774166 Mobil: +421 911 166 066	

**SECTION 2 - HAZARDS IDENTIFICATION**

<b>GHS pictogram:</b>	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.
<b>Signal word:</b> <b>Danger</b>	P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.	

**SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS**

CAS#	Chemical Name	Assay (%)	EINECS#
51163-28-1	4-Chloro-2-fluorophenyl isocyanate	-	-

**SECTION 4 - FIRST AID MEASURES**

<b>Eyes:</b>	Rinse opened eye for at least 15 minutes under running water. Get medical aid.
<b>Skin:</b>	Instantly wash with water and soap and rinse thoroughly. Get medical aid.
<b>Ingestion:</b>	Get medical aid. Wash mouth out with water.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If required, provide artificial respiration. Get medical aid.

**SECTION 5 - FIRE FIGHTING MEASURES**

<b>Suitable extinguishing agents</b>	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
<b>Protective equipment:</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin/eyes.
<b>Unusual fire and explosions hazards:</b>	During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>Person-related safety precautions:</b>	Wear protective equipment as indicated in section 8. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash spill site after material pickup is complete.
<b>Environmental precautions</b>	Do not let this chemical enter the environment.
<b>Additional information:</b>	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**

<b>Handling:</b>	Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Ensure adequate ventilation.
<b>Storage:</b>	Store in a dry, cool and well ventilated place. Keep container closed when not in use. Recommended storage temperature: 2 - 8 °C. Store under inert gas. Moisture sensitive. See Section 10 for stability and reactivity information.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering Controls:</b>	Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Safety shower and eye bath.
<b>Personal Protective Equipment</b>	
<b>Eyes:</b>	Wear chemical safety glasses.
<b>Skin:</b>	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective work clothing.
<b>Respirators:</b>	Use breathing protection with high concentrations.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Liquid	<b>Flash Point:</b>	85 °C
<b>Color:</b>	Colourless	<b>Specific Gravity/Density:</b>	Not available
<b>Boiling Point:</b>	201-202°C/760mm	<b>Molecular Formula:</b>	C7H3ClFNO
<b>Freezing/Melting Point:</b>	Not available	<b>Molecular Weight:</b>	171,56

## SECTION 10 - STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Incompatible Materials:</b>	Strong oxidizing agents
<b>Conditions to avoid:</b>	Incompatible products, moisture, heat, flames, sparks
<b>Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen oxides, hydrogen fluoride

## SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Carcinogenicity:</b>	There are no known carcinogenic chemicals in this product. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
<b>Potential Health Effects:</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation may cause respiratory irritation. May be harmful if inhaled, swallowed or absorbed through skin. May causes serious eye irritation.
<b>Other:</b>	The toxicological properties have not been fully investigated.

## SECTION 12 - ECOLOGICAL INFORMATION

No data available

## SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

## SECTION 14 - TRANSPORT INFORMATION

<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Not regulated</b>	<b>Not regulated</b>	<b>Not regulated</b>

## SECTION 15 - REGULATORY INFORMATION

<b>European/International Regulations</b>	
European Labeling in Accordance with EC Directives	
<b>Hazard Symbols:</b>	Xn – harmful
<b>Risk Phrases:</b>	R36/37/38 - Irritating to eyes, respiratory system and skin. R42 - May cause sensitization by inhalation
<b>Safety Phrases:</b>	S23 - Do not breathe vapour S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Canadian DSL/NDSL	CAS# 51163-28-1 is not listed on Canada's DSL or NDSL List.
US Federal TSCA	CAS# 51163-28-1 is not listed on the TSCA Inventory. It is for research and development use only.

## SECTION 16 - OTHER INFORMATION

### WARRANTY

*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.*