



MATERIAL SAFETY DATA SHEET
4-CHLORO-7-(TRIFLUOROMETHYL)QUINOLINE



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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

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
Emergency Number, Slovakia:	National Toxicological Information Centre Tel: 00421-2-54774166 Mobil: +421 911 166 066	

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Symbol:		Risk Phrases: R 36/37/38 Irritating to eyes, respiratory system and skin
Xi - irritant		
GHS pictogram:		H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P280 - Wear protective gloves/protective clothing/eye protection/face protection
Signal word:	Warning	

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Assay (%)	EINECS#
346-55-4	4-Chloro-7-(trifluoromethyl)quinoline	98+	206-471-0

SECTION 4 - FIRST AID MEASURES

Eyes:	Rinse opened eye for at least 15 minutes under running water. Get medical aid.
Skin:	Instantly wash with water and soap and rinse thoroughly. Get medical aid.
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	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

Suitable extinguishing agents	Fight fires with water jet, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.
Unusual fire and explosions hazards:	During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Wear protective equipment as indicated in section 8. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.
Environmental precautions	Do not let product enter drains.
Additional information:	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

Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.
Storage:	Store in a dry place. Keep container closed when not in use. See Section 10 for stability and reactivity information.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Form:	Crystalline Powder
Color:	White - light yellow
Boiling Point:	Not available
Freezing/Melting Point:	69 - 71 °C
Autoignition Temperature (kindling point):	Not available
Flash Point:	Not available
Decomposition Temperature:	Not available
Solubility in water:	Not available
Specific Gravity/Density:	Not available
Refractive Index:	Not available
Molecular Formula:	C ₁₀ H ₅ Cl F ₃ N
Molecular Weight:	231,60

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Materials to be avoided:	Strong oxidants.
Hazardous Decomposition Products:	Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides, Hydrogen chloride gas, Hydrogen fluoride

SECTION 11 - TOXICOLOGICAL INFORMATION

Carcinogenicity:	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.
Irritant effects:	Inhalation may cause respiratory irritation.
Other:	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

IATA	IMO	RID/ADR
Not regulated	Not regulated	Not regulated

SECTION 15 - REGULATORY INFORMATION**European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols:	Xi – irritant
Risk Phrases:	R 36/37/38 Irritating to eyes, respiratory system and skin.
Safety Phrases:	S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice. S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection) CAS# 346-55-4: Not available

Canadian DSL/NDSL CAS# 346-55-4 is not listed on Canada's DSL or NDSL List.

US Federal TSCA CAS# 346-55-4 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 MSDS are compiled according to the present knowledge of the manufacturer. It does not represent any guarantee of the properties of the product. MSDS shall be used only as a guide. Georganics Ltd. is not liable for damages incurred in the handling or contact with chemicals.