SAFETY DATA SHEET
5-CHLOROVALERONITRILE

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

Product identifiers
    Product name: 5-CHLOROVALERONITRILE   Product Code: GEO-00825   CAS-No. : 6280-87-1

Relevant identified uses of the substance or mixture and uses advised against
    Identified uses : Laboratory chemicals, Manufacture of substances

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: +421-2-54774166, Mob: +421 911 166 066

SECTION 2 - HAZARDS IDENTIFICATION

GHS pictogram: H301 - Toxic if swallowed.
                        H311 - Toxic in contact with skin.
                        H331 - Toxic if inhaled.
                        P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Signal word: P280 - Wear protective gloves/ protective clothing.
                        P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
    Danger   P311 - Call a POISON CENTER or doctor/ physician.

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Synonyms	Formula	Molecular Weight	Assay (%)	CAS#	EC-No.
-	C5H8ClN	117,58 g/mol	-	6280-87-1	228-481-4

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.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.

SECTION 5 - FIRE FIGHTING MEASURES	
Suitable extinguishing agents:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Precautions for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6 - ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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	
Precautions for safe handling:	Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapors/spray.
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. Light sensitive. 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

Respiratory protection: Dust respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Eye protection: Wear chemical safety glasses.

Hand protection: Impervious gloves.

Skin and body protection: Wear appropriate protective work clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid	**Flash Point:**	98 °C - closed cup
Color:	Clear colorless to yellow	**Solubility:**	Not available
Boiling Point:	92 - 93°C/10mm	**Molecular Formula:**	C_5H_8ClN
Freezing/Melting Point:	Not available	**Molecular Weight:**	117,58

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Possibility of hazardous reactions:	No special reactivity has been reported.
Incompatible Materials:	Strong oxidizing agents, strong acids, strong bases
Conditions to avoid:	Incompatible products, light sensitive
Hazardous Decomposition Products:	Carbon oxides, nitrogen oxides, hydrogen chloride gas

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	IARC = 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.
	NTP = No data available
Reproductive toxicity:	No data available
RTECS Number:	Not available

SECTION 12 - ECOLOGICAL INFORMATION

Mobility in soil**:**	No data available
Serious eye damage/irritation**:**	No data available
Toxicity:	No data available

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated Dispose of as unused product.

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

SECTION 14 - TRANSPORT INFORMATION

	IATA	IMDG/IMO	RID/ADR
UN Number:	3276	3276	3276
Shipping Name:	NITRILES, TOXIC, LIQUID, N.O.S.	NITRILES, TOXIC, LIQUID, N.O.S.	NITRILES, TOXIC, LIQUID, N.O.S.
Hazard Class:	6.1	6.1	6.1
Packing Group:	III	III	III

SECTION 15 - REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Canadian DSL/NDSL	CAS# 6280-87-1 is not listed on Canada's DSL or NDSL List.
US Federal TSCA	CAS# 6280-87-1 is not listed on the TSCA Inventory.

SECTION 16 - OTHER INFORMATION

WARRANTY