

**1H-PYRROLO[2,3-B]PYRIDINE-3-CARBONITRILE**

Version 1, Revision: 06/05/2016

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

Product name: 1H-Pyrrolo[2,3-b]pyridine-3-carbonitrile      Product Code: GEO-03547      CAS-No. : 4414-89-5

**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

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**SECTION 2 - HAZARDS IDENTIFICATION**
**Classification of the substance or mixture**
**Classification according to Regulation (EC) No 1272/2008**

H301 Acute Tox. 3

H315 Skin Irrit. 2

H318 Eye Dam. 1

H335 STOT SE 3a

**Label elements**

Labelling according Regulation (EC) No 1272/2008

**GHS pictogram:**


H301 - Toxic if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

**Signal word:**

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**Danger**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351+ P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Synonyms	Formula	Molecular Weight	Assay (%)	CAS#	EC-No.
	C8H5N3	143,15g/mol	-	4414-89-5	-

**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>	Carbon dioxide, Alcohol or polymer foam, Dry chemical powder
<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. 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>	Solid	<b>Flash Point:</b>	Not available
<b>Color:</b>	Not available	<b>Specific Gravity/Density:</b>	Not available
<b>Boiling Point:</b>	Not available	<b>Molecular Formula:</b>	C8H5N3
<b>Freezing/Melting Point:</b>	258-262 °C	<b>Molecular Weight:</b>	143,15

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Incompatible Materials:</b>	Strong oxidizing agents, Strong acids and bases
<b>Conditions to avoid:</b>	Incompatible products
<b>Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen oxides

**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>IMDG/IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	NITRILES, SOLID, TOXIC, N.O.S. (1H-Pyrrolo[2,3- b]pyridine-3-carbonitrile)	NITRILES, SOLID, TOXIC, N.O.S. (1H-Pyrrolo[2,3- b]pyridine-3-carbonitrile)	NITRILES, SOLID, TOXIC, N.O.S. (1H-Pyrrolo[2,3-b]pyridine- 3-carbonitrile)
<b>Hazard Class:</b>	6.1	6.1	6.1
<b>UN Number:</b>	3439	3439	3439
<b>Packing Group:</b>	III	III	III

**SECTION 15 - REGULATORY INFORMATION****This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.**

Canadian DSL/NDSL	CAS# 4414-89-5 is listed on Canada's DSL or NDSL List.
US Federal TSCA	CAS# 4414-89-5 is 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.*