

5-FLUORO-1-BENZOTHIOPHENE-2-CARBOXYLIC ACID

Version 1, Date: 06/12/2016

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

 Product name: 5-Fluoro-1-benzothiophene-2-carboxylic acid
 Product Code: GEO-03863 CAS-No. : 70060-13-8

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

Skin sensitization (Category 1), H317 Eye irritation (Category 2), H319

Label elements

Labelling according Regulation (EC) No 1272/2008

GHS pictogram: H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation.

Signal word: P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.


Warning
SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

| Synonyms | Formula | Molecular Weight | Assay (%) | CAS# | EC-No. |
|----------|----------|------------------|-----------|------------|--------|
| - | C9H5FO2S | FW 196,20 g/mol | - | 70060-13-8 | - |

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: Carbon dioxide, dry chemical powder, alcohol or polymer foam.

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. Store under Argon. 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: | Solid | Flash Point: | No data available |
| Color: | No data available | Molecular Formula: | C9H5FO2S |
| Initial boiling point and boiling range: | 240-243° | Molecular Weight: | 196,20 |

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 and bases

Conditions to avoid: Incompatible products

Hazardous Decomposition Products: Carbon oxides, hydrogen fluoride, oxides of sulfur

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 data available
NTP = No data available

Reproductive toxicity: No data 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 packaging: Dispose of as unused product.
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

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

Canadian DSL/NDSL CAS# 70060-13-8 is not listed on Canada's DSL or NDSL List.

US Federal TSCA CAS# 70060-13-8 is not listed on the TSCA Inventory.

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.