

MATERIAL SAFETY DATA SHEET  
4-FLUORO-2,1,3-BENZOXADIAZOLE 98%

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 4-FLUORO-2,1,3-BENZOXADIAZOLE 98%

**Catalog Numbers:** 10.98

**Synonyms:** 4-Fluorobenzofurazan

Relevant identified uses of substance or mixture and uses advised against

Identified uses Laboratory chemicals, Manufacture of substances

**Company Identification:** Tau-Chem, Ltd.

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836 05 Bratislava, Slovak Republic

Phone: +421 2 44 452 252 Fax: +421 2 44 457 645

**POISON CENTER:** National Toxicological Information Centre

Limbová 5, 833 05 Bratislava,

**Emergency Numbers Slovakia:** Phone: +421 2 54 774 166 Fax: +421 2 54 774 605

### Section 2 - Hazards Identification

#### Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

Not a dangerous substance according to GHS.

According to European Directive 67/548/EEC as amended.

This substance is not classified as dangerous according to Directive 67/548/EEC.

#### Label elements

Caution – substance not yet tested completely.

**Other hazards** None.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
29270-55-1	4-FLUORO-2,1,3-BENZOXADIAZOLE	98	Unlisted

**Classification** This substance is not classified as dangerous according to Directive 67/548/EEC.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### Section 4 - First Aid Measures

**General advice:** Consult a physician.

<b>If inhaled:</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In case eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### Section 5 - Fire Fighting Measures

<b>Suitable extinguishing media:</b>	Use water, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special protective equipment for fire-fighters:</b>	Wear self contained apparatus breathing apparatus for fire fighting if necessary.

### Section 6 - Accidental Release Measures

<b>Personal precautions:</b>	Use personal protective equipment. Avoid breathing of vapours or mist. Ensure adequate ventilation.
<b>Environmental precautions:</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleaning up:</b>	Remove all sources of ignition. Use a spark-proof tool. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not let this chemical enter the environment.

### Section 7 - Handling and Storage

<b>Precautions for safe handling:</b>	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure.
<b>Conditions for safe storage:</b>	Store in a cool, dry place. Store in a tightly closed container.

### Section 8 - Exposure Controls, Personal Protection

<b>Personal protective equipment:</b>	
<b>Respiratory protection:</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>Hand protection</b>	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
<b>Eye protection:</b>	Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards as NIOSH (US) or EN 166 (EU)
<b>Skin and body protection:</b>	Impervious body protection according to the amount and concentration of the dangerous substance at the work place.
<b>Hygiene</b>	Handle in accordance with good industrial hygiene and safety practice. Wash

measures: hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

### Appearance

Form: Clear liquid  
Colour: Light yellow to yellowish-red

### Safety data:

pH Not available  
Melting point: Not available  
Boiling Point: 83°C / 12 mm Hg  
Flash Point: Not available  
Ignition temperature: Not available  
Explosion Limits: Lower: Not available  
Explosion Limits: Upper: Not available  
Solubility in water: Not available  
Specific density: Not available  
Refractive Index: Not available  
Molecular Formula:  $C_6H_3FN_2O$   
Molecular Weight: 138.10 g/mol

## Section 10 - Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.  
Conditions to avoid: Heat, Ignition sources.  
Materials to avoid: Strong oxidizing agents.  
Hazardous Decomposition Products: Hazardous decomposition products under fire conditions.  
– Carbon oxides, hydrogen fluoride(g), nitrogen oxides.

## Section 11 - Toxicological Information

Acute toxicity No data available  
Skin corrosion/irritation No data available  
Serious eye damage/eye irritation No data available  
Respiratory or skin sensitization No data available  
Germ cell mutagenicity No data available

### Carcinogenicity:

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available  
Specific target organ toxicity – single exposure Inhalation – May cause respiratory irritation.  
Specific target organ toxicity – repeated exposure No data available  
Aspiration hazard No data available

**Potential health effect:**

**Inhalation**

May be harmful if inhaled.

**Ingestion**

May be harmful if swallowed.

**Skin**

May be harmful if absorbed through skin.

**Eyes**

May cause serious eye irritation

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: No data available

**Section 12 – Ecological Information**

<b>Toxicity:</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

**Section 13 - Disposal Considerations**

<b>Product</b>	Observe all federal, state and local environmental regulations.
<b>Contaminated packaging</b>	Dispose of as unused product.

**Section 14 - Transport Information**

	<b>IATA</b>	<b>IMGD</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

**Section 15 - Regulatory Information**

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

**Section 16 - Other Information**

**MSDS Creation Date:** 15/02/2010

**Revision #1:**01/02/2010

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

Disclaimer: The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.