



SIGMA-ALDRICH

## Material Safety Data Sheet

Date Printed: 12/13/2008  
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Version 1.70

### Section 1 - Product and Company information

<b>Product Name</b>	Fast Garnet GBC sulfate salt		
<b>Product Number</b>	F8761		
<b>Brand</b>	Sigma-Aldrich		
<b>Company</b>	Sigma-Aldrich		
<b>Address</b>	3050 Spruce Street		
<b>City, State, Zip, Country</b>	SAINT LOUIS, MO 63103 US		
<b>Technical Phone:</b>	800-325-5832	<b>Emergency Phone:</b>	314-776-6555
<b>Fax:</b>	800-325-5052		

### Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
FAST GARNET GBC SALT	101-89-3	No	202-985-4	

**Formula** C14H14N4O4S  
**Synonyms**

### Section 3 - Hazards Identification

#### Emergency Overview

Toxic.  
May cause cancer.  
Probable Carcinogen (US).

#### HMIS Rating

Health: 0\*      Flammability: 0      Reactivity: 0

#### NFPA Rating

Health: 0      Flammability: 0      Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

#### Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

#### Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5 - Fire Fighting Measures

**Autoignition Temp:** N/A

#### Extinguishing Media

##### Suitable

Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

#### Firefighting

##### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

##### Specific Hazard(s)

Emits toxic fumes under fire conditions.

### Section 6 - Accidental Release Measures

#### Procedure to be Followed in Case of Leak or Spill

Evacuate area.

#### Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

#### Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

#### Handling

##### User Exposure

Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### Storage

##### Suitable

Keep tightly closed. Store at -20°C

### Section 8 - Exposure Controls / PPE

#### Engineering Controls

Use only in a chemical fume hood. Safety shower and eye bath.

#### Personal Protective Equipment

##### Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use full-face supplied air respirator.

##### Hand

Compatible chemical-resistant gloves.

##### Eye

Chemical safety goggles.

**General Hygiene Measures**

Wash contaminated clothing before reuse. Wash thoroughly after handling.

**Section 9 - Physical/Chemical Properties**

Appearance	Physical State	Color	Form
	Solid	Dark - rust	Powder
<b>Molecular Weight</b>	334.36 AMU		
<b>pH</b>	N/A		
<b>BP/BP Range</b>	N/A		
<b>MP/MP Range</b>	N/A		
<b>Freezing Point</b>	N/A		
<b>Vapor Pressure</b>	N/A		
<b>Vapor Density</b>	N/A		
<b>Saturated Vapor Conc.</b>	N/A		
<b>SG/Density</b>	N/A		
<b>Bulk Density</b>	N/A		
<b>Odor Threshold</b>	N/A		
<b>Volatile%</b>	N/A		
<b>VOC Content</b>	N/A		
<b>Water Content</b>	N/A		
<b>Solvent Content</b>	N/A		
<b>Evaporation Rate</b>	N/A		
<b>Viscosity</b>	N/A		
<b>Partition Coefficient</b>	N/A		
<b>Decomposition Temp.</b>	N/A		
<b>Flash Point °F</b>	N/A		
<b>Flash Point °C</b>	N/A		
<b>Explosion Limits</b>	N/A		
<b>Flammability</b>	N/A		
<b>Autoignition Temp</b>	N/A		
<b>Solubility</b>	N/A		

N/A = not available

**Section 10 - Stability and Reactivity**

**Stability**  
Stable  
Stable.  
**Materials to Avoid**  
Strong oxidizing agents, Strong bases

**Hazardous Decomposition Products****Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides

**Hazardous Polymerization**  
**Hazardous Polymerization**  
Will not occur.

**Section 11 - Toxicological Information**

**Route of Exposure**  
**Skin Contact**  
May cause skin irritation.  
**Skin Absorption**  
May be harmful if absorbed through the skin.  
**Eye Contact**  
May cause eye irritation.  
**Inhalation**  
Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.  
**Ingestion**  
May be harmful if swallowed.

**Signs and Symptoms of Exposure**

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

**RTECS Number:** N/A

**Chronic Exposure- Carcinogen**

Result: This product is the diazonium sulfate form of Fast Garnet GBC, which is considered to be carcinogenic. Exercise caution when working with this product because of the possible in vivo conversion to Fast Garnet GBC.

**Section 12 - Ecological Information**

No data available.

**Section 13 - Disposal Considerations****Appropriate Method of Disposal of Substance or Preparation**

Contact a licensed professional waste disposal service to dispose of this material.

Observe all federal, state, and local environmental regulations.

(DN) Requires special label: "Contains a substance which is regulated by Danish work environmental law due to the risk of carcinogenic properties."

**Section 14 - Transport Information****DOT**

**Proper Shipping Name:** None

**Non-Hazardous for Transport** This substance is considered to be nonhazardous for transport.

**IATA**

**Non-Hazardous for Air Transport** Non-hazardous for air transport.

**Section 15 - Regulatory Information****EU Additional Classification**

**Symbol of Danger:** T

**Indication of Danger**

Toxic.

**Risk Statements** R: 45

May cause cancer.

**Safety Statements** S: 53 45

Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**US Classification and Label Text****Indication of Danger**

Toxic.

**Risk Statements**

May cause cancer.

**Safety Statements**

Do not breathe dust. Avoid exposure - obtain special instructions before use. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**US Statements**

Probable Carcinogen (US).

**United States Regulatory Information**

**SARA Listed:** No

**Canada Regulatory Information****WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**DSL:** Yes

**NDSL:** No

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**Section 16 - Other Information**

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**Disclaimer**

For R&D use only. Not for drug, household or other uses.

**Warranty**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SigmaAldrich Inc., shall not be held liable for any damage resulting from handling or fom contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.