

**SIGMA-ALDRICH****Material Safety Data Sheet**

Date Printed: 03/01/2006  
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 Version 1.30

**Section 1 - Product and Company Information**

Product Name	Benzyl disulfide, 98%
Product Number	W361704
Brand	Aldrich Chemical
Company	Sigma-Aldrich
Street Address	3050 Spruce Street
City, State, Zip, Country	SAINT LOUIS, MO 63103 US
Technical Phone:	800-325-5832
Fax:	800-325-5052
	Emergency Phone: 314-776-6555

**Section 2 - Composition/Information on Ingredient**

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
BENZYL DISULFIDE, FOR MANUFACTURING USE	150-60-7	No	205-764-0	
Formula Synonyms	C14H14S2 Dibenzyl disulfid (Czech)			

**Section 3 - Hazards Identification****Emergency Overview**

Irritant.

May cause sensitization by skin contact.

**HMIS Rating**

Health: 3\* Flammability: 0 Reactivity: 0

**NFPA Rating**

Health: 3 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 skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**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(s) of Personal Precaution(s)**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**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**

Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage****Suitable**

Keep tightly closed.

**Section 8 - Exposure Controls / PPE****Engineering Controls**

Mechanical exhaust required.

**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 dust mask type N95 (US) or type P1 (EN 143) respirator.

**Other**

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

**General Hygiene Measures**

Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Section 9 - Physical/Chemical Properties**

Appearance	Physical State	Color	Form
	Solid	Faintly beige	Crystalline
<b>Molecular Weight:</b>		246.39 AMU	
pH	N/A		
BP/BP Range	N/A		
MP/MP Range	68 °C		
Freezing Point	N/A		
Vapor Pressure	N/A		
Vapor Density	N/A		
Saturated Vapor Conc.	N/A		
SG/Density	N/A		
Bulk Density	N/A		
Odor Threshold	N/A		
Volatile%	N/A		
VOC Content	N/A		
Water Content	N/A		
Solvent Content	N/A		
Evaporation Rate	N/A		
Viscosity	N/A		
Partition Coefficient	N/A		
Decomposition Temp.	N/A		
Flash Point °F	N/A		
Flash Point °C	N/A		
Explosion Limits	N/A		
Flammability	N/A		
Autoignition Temp	N/A		
Solubility	N/A		

N/A = not available

**Section 10 - Stability and Reactivity**

**Stability**  
Stable  
Stable.

**Materials to Avoid**  
Strong bases, Strong oxidizing agents, Strong reducing agents.

**Hazardous Decomposition Products**

**Hazardous Decomposition Products**  
Carbon monoxide, Carbon dioxide, 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**

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

**Ingestion**

May be harmful if swallowed.

**Sensitization****Skin**

May cause allergic skin reaction.

**Signs and Symptoms of Exposure**

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

**RTECS Number:** JO1750000**Irritation Data**

Skin - Rabbit: 500 mg 24H

Remarks: Mild irritation effect

Eyes - Rabbit: 500 mg 24H

Remarks: Mild irritation effect

**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.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

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

**Proper Shipping Name:** None

**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

**IATA**

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

## Section 15 - Regulatory Information

### EU Additional Classification

Symbol of Danger: Xi

Indication of Danger

Irritant.

**Risk Statements** R: 43

May cause sensitization by skin contact.

**Safety Statements** S: 22 36/37

Do not breathe dust. Wear suitable protective clothing and gloves.

### US Classification and Label Text

Indication of Danger

Irritant.

**Risk Statements**

May cause sensitization by skin contact.

**Safety Statements**

Do not breathe dust. Wear suitable protective clothing.

### United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

### 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: No

NDSL: No

## Section 16 - Other Information

### 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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

