



SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 03/22/2005  
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Version 1.30

Section 1 - Product and Company Information

Product Name: 2-Bromoacetophenone, 98%  
Product Number: 115835  
Brand: Aldrich Chemical

Company: Sigma-Aldrich  
Street Address: 3050 Spruce Street  
City, State, Zip, Country: SAINT LOUIS, MO 63103 US  
Technical Phone: 314 771 5765  
Fax: 800 325 5052  
Emergency Phone: 414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
2-BROMOACETOPHENONE	70-11-1	No	200-724-9	

Formula: C8H7BrO  
Synonyms:

Section 3 - Hazards Identification

Emergency Overview  
Corrosive.  
Causes burns.  
Lachrymator.

HMIS Rating  
Health: 3 Flammability: 0 Reactivity: 0

NFPA Rating  
Health: 3 Flammability: 0 Reactivity: 0

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 immediately. Do not induce vomiting.

Inhalation Exposure  
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

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

Flash Point: 235 °F 113 °C

Autoignition Temp: N/A

Extinguishing Media  
Suitable  
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.

Methods for Cleaning Up  
Sweep up, place in a bag and hold for waste disposal. 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.

Section 8 - Exposure Controls / PPE

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

Personal Protective Equipment  
Respiratory  
Government approved respirator.  
Hand  
Compatible chemical-resistant gloves.  
Eye  
Chemical safety goggles.

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Safety and Environmental  
Health

**General Hygiene Measures**

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

**Section 9 - Physical/Chemical Properties****Appearance**

<b>Color</b>	<b>Form</b>
Very faintly beige	Fine crystals

**Molecular Weight:** 199.05 AMU

<b>Property</b>	<b>Value</b>	<b>At Temperature or Pressure</b>
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<b>pH</b>	N/A	
<b>BP/BP Range</b>	135 °C	18 mmHg
<b>MP/MP Range</b>	49 °C	
<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>Volatle%</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>	235 °F	Method: closed cup
<b>Flash Point °C</b>	113 °C	Method: closed cup
<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, Hydrogen bromide gas.

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

**Section 11 - Toxicological Information****Route of Exposure****Skin Contact**

Causes burns.

**Skin Absorption**

May be harmful if absorbed through the skin.

**Eye Contact**

Causes burns. Lachrymator.

**Inhalation**

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion**

May be harmful if swallowed.

**Signs and Symptoms of Exposure**

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:** N/A

**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.

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

**Proper Shipping Name:** Phenacyl bromide

**UN#:** 2645

**Class:** 6.1

**Packing Group:** Packing Group II

**Hazard Label:** Toxic substances.

**PIH:** Not PIH

**IATA**

**Proper Shipping Name:** Phenacyl bromide

**IATA UN Number:** 2645

**Hazard Class:** 6.1

**Packing Group:** II

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

**Symbol of Danger:** C

**Indication of Danger**

Corrosive.

**Risk Statements** R: 34

Causes burns.

**Safety Statements** S: 26 36/37/39 45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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 Classification and Label Text**

**Indication of Danger**

Corrosive.

**Risk Statements**

Causes burns.

**Safety Statements**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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**

Lachrymator.

**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: No

NDSL: Yes

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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. 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 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

