



SIGMA-ALDRICH

## Material Safety Data Sheet

Date Printed: 04/23/2008  
Date Updated: 02/02/2006  
Version 1.30

### Section 1 - Product and Company Information

**Product Name** 4-BROMOPHENACYL BROMIDE, FOR FLUOR-ESCEENCE  
**Product Number** 17970  
**Brand** Fluka 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
2,4-DIBROMOACETOPHENONE, 98%	99-73-0	No	202-783-6	

**Formula** C<sub>8</sub>H<sub>6</sub>Br<sub>2</sub>O  
**Synonyms** 4-Bromo(bromoacetyl)benzene, Bromomethyl pbromophenyl ketone, Bromomethyl 4bromophenyl ketone, p-Bromophenacyl-8, p-Bromophenacyl bromide, 4Bromophenacyl bromide, alpha,p Dibromoacetophenone, alpha,4Dibromoacetophenone, p, alphaDibromoacetophenone, omega,4,4-Dibromoacetophenone, 2,4'Dibromoacetophenone, 4, alphaDibromoacetophenone, Ethanone, 2 bromo-1-(4-bromophenyl)- (9CI)

### Section 3 - Hazards Identification

**Emergency Overview**  
Corrosive  
Causes burns. Irritating to eyes and respiratory system.  
Lachrymator.

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

### Section 4 - First Aid Measures

**Immediate Treatment- Work Site**  
In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

**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 not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Eye Exposure**  
Assure adequate flushing of the eyes by separating the eyelids with fingers.

### 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.

**Exposure Hazard(s)**  
**Material**  
Corrosive. Lachrymator.

### 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. 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 in a cool dry place.

### Section 8 - Exposure Controls / PPE

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

**Personal Protective Equipment**  
**Other**  
Wear appropriate government approved respirator, chemical resistant gloves, safety goggles, other protective clothing.

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**General Hygiene Measures**

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

**Section 9 - Physical/Chemical Properties**

Appearance	Color	Form
	Faintly yellow	Fine crystals
<b>Molecular Weight</b>	277.95 AMU	
<b>pH</b>	N/A	
<b>BP/BP Range</b>	N/A	
<b>MP/MP Range</b>	108 °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>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**

<b>Stability</b>	
<b>Materials to Avoid</b>	Strong oxidizing agents, Strong bases, Strong reducing agents
<b>Hazardous Decomposition Products</b>	
<b>Hazardous Decomposition Products</b>	Carbon monoxide, Carbon dioxide, Hydrogen bromide gas

**Section 11 - Toxicological Information**

<b>Route of Exposure</b>	
<b>Multiple Routes</b>	Harmful if swallowed, inhaled, or absorbed through skin.

**Signs and Symptoms of Exposure**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract. eyes, and skin. 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. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:** AM6950000

**Toxicity Data**

Oral - Mouse: > 2000 mg/kg (LD50)  
Intravenous - Mouse: 18 MG/KG (LD50)

**Section 12 - Ecological Information**

No data available.

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

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:** Corrosive solid, acidic, organic, n.o.s.  
**UN#:** 3261  
**Class:** 8  
**Packing Group:** Packing Group II  
**Hazard Label:** Corrosive  
**PIH:** Not PIH

**IATA**

**Proper Shipping Name:** Corrosive solid, acidic, organic, n.o.s.  
**IATA UN Number:** 3261  
**Hazard Class:** 8  
**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. Irritating to eyes and respiratory system.

**Safety Statements**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Take off immediately all contaminated clothing. Wear suitable protective clothing, gloves, and eye/face protection.

**US Statements**

Lachrymator.

**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: 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 from 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.

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