## Material Safety Data Sheet

Classified as Hazardous according to the criteria of EU Annex 1 and  ${\tt NOHSC}$ .

# 1 - Product and Company Information

Product Name Product Number	METHYL BROMOACETATE 17050
Company	Sigma-Aldrich Pty, Ltd Unit 2, 14 Anella Avenue Castle Hill NSW 1765
Technical Phone # Fax	+61 2 9841 0555 +61 2 9841 0500
Emergency Phone #	+61 2 9841 0566

### 2 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
			Index Number
METHYL BROMOACETATE	96-32-2	202-499-2	None

Formula C3H5BrO2 Molecular Weight 152.98 AMU

Synonyms

Bromoacetic acid methyl ester \* Methyl
alpha-bromoacetate \* Methylester kyseliny
bromoctove (Czech) \* Methyl monobromoacetate

# 3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Toxic if swallowed. Causes burns. Irritating to respiratory system.

### 4 - First Aid Measures

# AFTER INHALATION

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

### AFTER SKIN CONTACT

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

# AFTER EYE CONTACT

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.

#### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting.

### 5 - Fire Fighting Measures

#### EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

#### SPECIAL RISKS

Specific Hazard(s): Combustible liquid. Emits toxic fumes under fire conditions.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

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

# 6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES 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

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

# 7 - Handling and Storage

#### HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### **STORAGE**

Conditions of Storage: Keep tightly closed. Keep away from heat and open flame. Store in a cool dry place.

### 8 - Exposure Controls / Personal Protection

#### ENGINEERING CONTROLS

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

# GENERAL HYGIENE MEASURES

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

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator. Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Special Protective Measures: Faceshield (8-inch minimum).

### 9 - Physical and Chemical Properties

Color: Very faintly yellow Appearance

Form: Clear liquid

Property Value At Temperature or Pressure

N/A рН

```
BP/BP Range
MP/MP Range
                      144 - 145 °C
                      N/A
                      64 °C
Flash Point
                                         Method: closed cup
Flammability
                      N/A
                    N/A
Autoignition Temp
Oxidizing Properties N/A
Explosive Properties
                      N/A
Explosion Limits
                      N/A
Vapor Pressure
                      N/A
                      1.664 \, \text{g/cm}
SG/Density
Partition Coefficient N/A
Viscosity
                      N/A
Vapor Density
                      N/A
Saturated Vapor Conc. N/A
Evaporation Rate
                      N/A
Bulk Density
                      N/A
Decomposition Temp.
                      N/A
Solvent Content
                      N/A
Water Content
                      N/A
Surface Tension
                      N/A
Conductivity
                      N/A
Miscellaneous Data
                     N/A
Solubility
                      N/A
```

# 10 - Stability and Reactivity

#### STABILITY

Stable: Stable.

Materials to Avoid: Acids, Bases, Oxidizing agents, Reducing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen bromide gas.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

# 11 - Toxicological Information

## RTECS NUMBER: AF6300000

#### ACUTE TOXICITY

LD50

Oral

Rat

70 mg/kg

### 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 larynxand 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.

#### ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes burns. Lachrymator.
Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: Toxic if swallowed.

# 12 - Ecological Information

No data available.

### 13 - Disposal Considerations

#### SUBSTANCE DISPOSAL

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

# 14 - Transport Information

```
RID/ADR
  UN#: 2643
   Class: 6.1
   PG: II
   Proper Shipping Name: Methyl bromoacetate
IMDG
  IJN#: 2643
  Class: 6.1
   Proper Shipping Name: Methyl bromoacetate
   Marine Pollutant: No
   Severe Marine Pollutant: No
TATA
   UN#: 2643
   Class: 6.1
   Proper Shipping Name: Methyl bromoacetate
   Inhalation Packing Group I: No
```

#### 15 - Regulatory Information

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CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
INDICATION OF DANGER: T
Toxic.
R-PHRASES: 25 34 37
Toxic if swallowed. Causes burns. Irritating to respiratory system.
S-PHRASES: 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).

SWITZERLAND
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#### 16 - Other Information

SWISS POISON CLASS: 1

# 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.

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