



**QUALIKEMS FINE CHEM PVT. LTD.**  
**5531,BASTI HARPHOOL SINGH,SADAR THANA ROAD,DELHI-06.**  
Material Safety Data Sheet

Version 4.2

Revision Date 01/19/2012  
Print Date 03/05/2012

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:Acetyl bromide
Product Number	:135968
Brand	:Aldrich
Supplier	:QUALIKEMS FINE CHEM PVT LTD PLOT NO. 68, 69, GIDC. INDUSTRIAL ESTATE, NANDESARI, VADODARA - 391340 (GUJARAT) INDIA
Telephone	:91-265-2841531
Emergency Phone # (For both supplier and manufacturer)	:91-265-2841531 (9:00am - 6:30 pm) [Office hours]
Preparation Information	:QUALIKEMS FINE CHEM PVT LTD

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### OSHA Hazards

Corrosive

#### Other hazards which do not result in classification

Lachrymator.

#### GHS Classification

Skin corrosion (Category 1B)

Serious eye damage (Category 1)

Acute aquatic toxicity (Category 3)

#### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s) H314	Causes severe skin burns and eye damage.
H402	Harmful to aquatic life.
Precautionary statement(s) P280 P305 + P351 + P338	Wear protective gloves/ protective clothing/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/ physician.

#### HMIS Classification

Health hazard:	3
Flammability:	1
Physical hazards:	0

#### NFPA Rating

Health hazard:	3
Fire:	1
Reactivity Hazard:	0

#### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin burns.
<b>Eyes</b>	Causes eye burns.
<b>Ingestion</b>	May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	: C <sub>2</sub> H <sub>3</sub> BrO
Molecular Weight	: 122.95 g/mol

Component	Concentration
<b>Acetyl bromide</b>	
CAS-No.	506-96-7
EC-No.	208-061-7

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician. **In case of eye contact**  
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

## 5. FIREFIGHTING MEASURES

### Conditions of flammability

Not flammable or combustible.

### Suitable extinguishing media

Dry powder

### Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen bromide gas

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Do not flush with water. Keep in suitable, closed containers for disposal.

### Precautions for safe handling

Avoid inhalation of vapour or mist.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Never allow product to get in contact with water during storage.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Form	clear, liquid
------	---------------

Colour light brown

pH no data available

Melting point/freezing point	Melting point/range: -96 °C (-141 °F) - lit.
------------------------------	--

Boiling point 75 - 77 °C (167 - 171 °F) - lit.

Flash point 110 °C (230 °F) - closed cup

Ignition temperature	no data available
----------------------	-------------------

Autoignition temperature	no data available
--------------------------	-------------------

Lower explosion limit	no data available
-----------------------	-------------------

Upper explosion limit	no data available
-----------------------	-------------------

Vapour pressure 122.9 hPa (92.2 mmHg) at 25 °C (77 °F)

Density 1.663 g/cm<sup>3</sup> at 25 °C (77 °F)

Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	4.24 - (Air = 1.0)
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

---

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Reacts violently with water.

### Conditions to avoid

Do not allow water to enter container because of violent reaction.  
Exposure to moisture.

### Materials to avoid

Strong oxidizing agents, Strong bases, Alcohols

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen bromide gas Other decomposition products - no data available

---

## 11. TOXICOLOGICAL INFORMATION Acute toxicity

### Oral LD50

### Inhalation LC50

LC50 Inhalation - Mammal - 48,000 mg/m3

### Dermal LD50

no data available

### Other information on acute toxicity

no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Teratogenicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

**Inhalation**

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous

**Ingestion**

membranes and upper respiratory tract.

**Skin**

May be harmful if swallowed.

May be harmful if absorbed through skin. Causes skin burns.

**Eyes**

Causes eye burns.

## Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

## Synergistic effects

no data available

## Additional Information

RTECS: AO5955000

---

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 40.6 mg/l - 96 h

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### PBT and vPvB assessment

no data available

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

no data available

---

## 13. DISPOSAL CONSIDERATIONS

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 1716

Class: 8

Packing group: II

Proper shipping name: Acetyl bromide

Reportable Quantity (RQ): 5000 lbs  
Marine pollutant: No  
Poison Inhalation Hazard: No

#### IMDG

UN number: 1716      Class: 8      Packing group: II      EMS-No: F-A, S-B  
Proper shipping name: ACETYL BROMIDE  
Marine pollutant: No

#### IATA

UN number: 1716      Class: 8      Packing group: II  
Proper shipping name: Acetyl bromide

---

## 15. REGULATORY INFORMATION

### OSHA Hazards

Corrosive

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard

### Massachusetts Right To Know Components

Acetyl bromide	CAS-No. 506-96-7	Revision Date 1993-04-24
----------------	---------------------	-----------------------------

### Pennsylvania Right To Know Components

Acetyl bromide	CAS-No. 506-96-7	Revision Date 1993-04-24
----------------	---------------------	-----------------------------

### New Jersey Right To Know Components

Acetyl bromide	CAS-No. 506-96-7	Revision Date 1993-04-24
----------------	---------------------	-----------------------------

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

---

## 16. OTHER INFORMATION

### Further information

Copyright 2012 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

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 Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

