



**LEONID CHEMICALS PVT. LTD.,
BANGALORE**

An ISO-9001:2008 Certified Company

Quality Assurance Department

(CODE) DOCUMENT : WI

(CODE) SECTION : WI/SM

(DATE) : 01.04.2011



Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): ACETYL BROMIDE

1 | Page of 1

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Acetyl bromide

Catalog Numbers:A090,A095

Synonyms: Ethanoyl bromide

CAS-No. : 506-96-7

Company Information:

LEONID CHEMICALS Pvt Ltd,
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SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Skin corrosion (Category 1B)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Reacts violently with water. Causes burns.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]
Signal word Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 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.

Supplemental Hazard information (EU)



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2 | Page of 1

EUH014 Reacts violently with water.
According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

R-phrase(s)

R14 Reacts violently with water.

R34 Causes burns.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3 Other hazards

Lachrymator.

SECTION 3: Composition/information on ingredients

3.1 Substances

Formula : C₂H₃BrO
Molecular Weight : 122,95 g/mol

Component		Concentration
Acetyl bromide		
CAS-No.	506-96-7	-
EC-No.	208-061-7	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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



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3 | Page of 1

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed
no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Dry powder

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen bromide gas

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 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.

6.3 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.

6.4 Reference to other sections

For disposal see section 13.



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Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): ACETYL BROMIDE

4 | Page of 1

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. 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.

7.3 Specific end uses

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

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).

Skin protection

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Splash protection

Material: butyl-rubber

Minimum layer thickness: 0,3 mm

Break through time: > 30 min

Material tested: Butoject

test method: EN374



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Title: MATERIAL SAFETY DATA SHEET (MSDS): ACETYL BROMIDE

5 | Page of 1

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

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.

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).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) Appearance Form : clear, liquid
- Colour : light brown
- b) Odour : no data available
- c) Odour Threshold : no data available
- d) pH : no data available
- e) Melting point/freezing point : Melting point/range: -96 °C - lit.
- f) Initial boiling point and boiling range : 75 - 77 °C - lit.
- g) Flash point : 110 °C - closed cup
- h) Evaporation rate : no data available
- i) Flammability (solid, gas) : no data available
- j) Upper/lower flammability or explosive limits : no data available
- k) Vapour pressure : 122,9 hPa at 25 °C
- l) Vapour density : 4,24 - (Air = 1.0)
- m) Relative density : 1,663 g/cm³ at 25 °C
- n) Water solubility : no data available
- o) Partition coefficient: noctanol/water : no data available
- p) Autoignition Temperature : no data available
- q) Decomposition



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): ACETYL BROMIDE

6 | Page of 1

- temperature : no data available
- r) Viscosity : no data available
- s) Explosive properties : no data available
- t) Oxidizing properties : no data available

9.2 Other safety information
no data available

SECTION 10: Stability and reactivity

- 10.1 Reactivity**
no data available
- 10.2 Chemical stability**
no data available
- 10.3 Possibility of hazardous reactions**
Reacts violently with water.
- 10.4 Conditions to avoid**
Do not allow water to enter container because of violent reaction.
Exposure to moisture.
- 10.5 Incompatible materials**
Strong oxidizing agents, Strong bases, Alcohols
- 10.6 Hazardous decomposition products**
Other decomposition products - no data available

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects**
 - Acute toxicity**
LC50 Inhalation - Mammal - 48.000 mg/m³
 - 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



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Issue : 02

Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): ACETYL BROMIDE

7 | Page of 1

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.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

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 membranes and upper respiratory tract.

Ingestion May be harmful if swallowed. Causes burns.

Skin 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

Additional Information

RTECS: A05955000

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 40,6 mg/l - 96 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available



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Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): ACETYL BROMIDE

8 | Page of 1

- 12.6 Other adverse effects
Harmful to aquatic life.
no data available

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

- 14.1 UN number
ADR/RID: 1716 IMDG: 1716 IATA: 1716
- 14.2 UN proper shipping name
ADR/RID: ACETYL BROMIDE
IMDG: ACETYL BROMIDE
IATA: Acetyl bromide
- 14.3 Transport hazard class(es)
ADR/RID: 8 IMDG: 8 IATA: 8
- 14.4 Packaging group
ADR/RID: II IMDG: II IATA: II
- 14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
- 14.6 Special precautions for user
no data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available



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Rev.: 00

Title: MATERIAL SAFETY DATA SHEET (MSDS): ACETYL BROMIDE

9 | Page of 1

15.2 Chemical Safety Assessment



no data available

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Leonid Chemicals Pvt. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Leonid Chemicals Pvt. Ltd. has been advised of the possibility of such damages.



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 Chemlabs	LEONID CHEMICALS PVT. LTD., BANGALORE An ISO-9001:2008 Certified Company Quality Assurance Department	(CODE) DOCUMENT : R/QPM/8.2.4/06 (CODE) SECTION : A095 (DATE) : 01.04.2011	 Issue : 02 Rev.: 00
Title: SPECIFICATION MANUAL - ACETYL BROMIDE		1 Page of 1	

Specification manual - Acetyl Bromide

CH₃COBr

Mol Wt: 122.95

Product : Acetyl Bromide LR
Description : A colourless or slightly yellow liquid.
Cat No : A095
Cas No : 506-96-7
Prepared Date : 08.02.2009
Approved Date : 08.02.2009

REVISION HISTORY			
Issue/Rev	Description of Change	Author	Effective Date
01/00	Initial Release	S. Paul Joshua	08.02.2009
02/00	Reviewed no changes	S. Paul Joshua	01.04.2011
Next Review Due :	02.04.2015		
To be reviewed by :	Head-QC/QA		

Sl. No.	Tests	Specification
		LR
1	Assay	Min 98%
2	Boiling range	74-77°C
3	Density	1.65g

Approved By: S.Paul Joshua, Head Quality Control and Quality Assurance