

CONTACT : LEONID CHEMICALS

MATERIAL SAFETY DATA SHEET

62/A-2 2nd Stage, Industrial Suburb Ashokpuram School Road, Yeshwanthpur Bangalore-560 022, INDIA Ph: +91-80-2337 8354, Fax: +91-80-2357

#### 4-Bromotoluene, 99%

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 4-Bromotoluene, 99%

Catalog Numbers: AC107480000, AC107480050, AC107480500, AC107481000, AC107482500, AC107485000 AC107485000

Synonyms:

1-Bromo-4-methylbenzene; Benzene,1-bromo-4-methyl; 4-Bromo-1-methylbenzene; 4-methylbromobenzene; p-Methylphenyl bromide; 4-Methyl-1-bromobenzene

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Company Information: LEONID CHEMICALS 62/A-2 1st Stage, Yeshwanthpur Industrial Suburb Ashokpuram School Road Bangalore-560 022, Karnataka, INDIA Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

### SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	106-38-7
Chemical Name	:	4-Bromotoluene
%	:	99.0 %
EINECS#	:	203-391-8
Hazard Symbols		Unlisted.
Risk Phrases	:	Unlisted.

## SECTION 3- HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Warning! Causes eye and skin irritation. Causes digestive and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

## Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation.



Ingestion:

The toxicological properties of this substance have not been fully investigated. Causes gastrointestinal tract irritation.

Inhalation:

Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic:

No information available.

# SECTION 4 - FIRST AID MEASURES

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

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Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5- FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

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Extinguishing Media:

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

### General Information:

Use proper personal protective equipment as indicated in Section 8.



62/A-2 2nd Stage, Industrial Suburb Ashokpuram School Road, Yeshwanthpur Bangalore-560 022, INDIA Ph: +91-80-2337 8354, Fax: +91-80-2357 4827 Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

\_\_\_\_\_ SECTION 7 - HANDLING AND STORAGE \_\_\_\_\_ Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Storage: Keep away from heat, sparks, and flame. Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. \_\_\_\_\_ SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \_\_\_\_\_ Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate clothing to prevent skin exposure. Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIESPhysical State:CrystalsAppearance:Odor:PH:No information available.Vapor Pressure:1.15 mm Hg @deg CVapor Density:Evaporation Rate:No information available.Viscosity:No information available.



184 deg C @ 760.00mmHg 26.00 - 29.00 deg C No information available. Soluble in ethanol, ether, and acetone 1.3900g/cm3 C7H7Br 171.04

SECTION 10 - STABILITY AND REACTIVITY

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Chemical Stability:

Stable under normal temperatures and pressures.

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Conditions to Avoid:

Incompatible materials, dust generation, strong oxidants.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen bromide, bromine fumes.

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Hazardous Polymerization: Has not been reported.

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SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 106-38-7: XS7965600

LD50/LC50:

CAS# 106-38-7: Inhalation, mouse: LC50 = 2460 mg/m3; Inhalation, rat: LC50 = 6800 mg/m3; Oral, mouse: LD50 = 1860 mg/kg; Oral, rat: LD50 = 1540 mg/kg;<BR.

Carcinogenicity: CAS# 106-38-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

SECTION 12 - ECOLOGICAL INFORMATION

### Ecotoxicity:

Bacteria: Phytobacterium phosphoreum: EC50 = 1.46-2.53 mg/L; 5,15,30 Minutes; Microtox test, 15 degrees C No data available.



## Environmental:

If released to water, 4-bromotoluene may be removed from the water column by volatilization and adsorption. Using an estimated Henry's Law constant of 2.3X10-3 atm-cu m/mol, volatilization half-lives of 4.3 hr and 5.3 days can be estimated for a model river and model lake, respectively. The potential effect of adsorption to sediment is considered in the half-life from an environmental pond which is estimated to be 14.9 days.

### Physical:

If released to the atmosphere, 4-bromotoluene is expected to degrade by reaction with photochemically produced hydroxyl radicals; the half-life for this reaction is estimated to be 9.8 days.

## Other:

A BCF of 230 was estimated for 4-bromotoluene, using its log Kow of 3.42 and a recommended regression-derived equation. According to a recommended classification scheme(3), this BCF value suggests that bioconcentration in fish and aquatic organisms is moderately high(SRC). [REF-

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SECTION 13 -DISPOSAL CONSIDERATIONS

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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14 - TRANSPORT INFORMATION

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US DOT Please contact Fisher Scientific for shipping information

Canada TDG No information available.

SECTION 15 - Regulatory Information

### TSCA

CAS# 106-38-7 is listed on the TSCA inventory. Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule. Section 12b None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA. CERCLA Hazardous Substances and corresponding RQs None of the chemicals in this material have an RQ.



SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA. STATE

CAS# 106-38-7 can be found on the following state right to know lists: Pennsylvania, Massachusetts.

California Prop 65 California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases: R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases: S 39 Wear eye/face protection.

WGK (Water Danger/Protection) CAS# 106-38-7: No information available.

Canada - DSL/NDSL

CAS# 106-38-7 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List

No information 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 Fisher 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 Fisher has been advised of the possibility of such damages.

