CONTACT : LEONID CHEMICALS
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Bangalore-560 022, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357

2-Bromopyridine, 99%

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
2-Bromopyridine, 99%

Catalog Numbers:
AC107400000, AC107400250, AC107400500, AC107401000

Synonyms:
2-Pyridyl bromide; o-Bromopyridine; beta-Bromopyridine; Pyridine, 2-bromo-

Company Information:
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SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	109-04-6
Chemical Name	:	2-Bromopyridine
%	:	99 %
EINECS#	:	203-641-6
Hazard Symbols	:	Unlisted.
Risk Phrases	:	Unlisted.

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Warning! May be fatal if absorbed through the skin. Flammable liquid and vapor. Harmful if inhaled or swallowed. Causes eye irritation. May cause skin irritation. May cause respiratory and digestive tract irritation. May cause central nervous system depression.

Potential Health Effects

Eye:
Causes eye irritation.

Skin:
May cause skin irritation. May be fatal if absorbed through the skin. May cause cyanosis of the extremities.

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Ingestion:

Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion of large amounts may cause CNS depression.

Inhalation:

Harmful if inhaled. May cause respiratory tract irritation. Aspiration may lead to pulmonary edema. Vapors may cause dizziness or suffocation. May cause burning sensation in the chest.

Chronic:

Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis.

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.

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:
Do not induce vomiting. 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. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor.

Extinguishing Media:
For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. A vapor suppressing foam may be used to reduce vapors.

SECTION 7 - HANDLING AND STORAGE

Handling:
Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage:
Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

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 general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

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 protective gloves and clothing to prevent skin exposure.
Clothing:

Wear appropriate protective 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.respirator in the positive pressure mode with emergency escape provisions.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Color	:	Clear slight brown
Odor	:	None reported.
PH	:	No information available.
Vapor Pressure	:	No information available.
Viscosity	:	No information available.
Boiling Point	:	192 -194 deg C @ 760.00 mmHg
Freezing/Melting Point	:	No information available.
Autoignition Temperature	:	> 400 deg C (> 752.00 deg F)
Flash Point	:	54 deg C (129.20 deg F)
Explosion Limits, lower	:	No information available.
Explosion Limits, upper	:	No information available.
Decomposition Temperature	:	No information available.
Solubility in water	:	2.5 g/l (20 c)
Specific Gravity/Density	:	No information available.
NFPA Rating	:	(estimated) Health: 2; Flammability: 2; Instability: 0
Molecular Formula	:	C5H4BrN
Molecular Weight	:	158.00

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable under normal temperatures and pressures.

Conditions to Avoid:
Incompatible materials, ignition sources, excess heat.

Incompatibilities with Other Materials:
Acid chlorides, strong acids, strong oxidizing agents.

Hazardous Decomposition Products:
Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, hydrogen bromide, nitrogen.

Hazardous Polymerization:
Has not been reported.

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SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 109-04-6: US3850000

LD50/LC50:
Not available.
Dermal, rabbit: LD50 = 81.5 mg/kg. rat: LD50 = 92

Carcinogenicity:

CAS# 109-04-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

No information available.

Mutagenicity:

No information available.

Neurotoxicity:

No information available.

Other Studies:

No information available.

SECTION 12 -ECOLOGICAL INFORMATION

No information available.

SECTION 13 -DISPOSAL CONSIDERATIONS

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.

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SECTION 14 - TRANSPORT INFORMATION

US DOT

Shipping Name	:	TOXIC LIQUIDS, FLAMMABLE, ORGANIC,N.O.S.
Hazard Class	:	6.1
UN Number	:	UN2929
Packing Group	:	II
Additional Info	:	No information available.

Canada TDG

Shipping Name	:	TOXIC LIQUID,FLAMMABLE,ORGANIC,NO (2-BROMOPYRIDINE)
Hazard Class	:	6.1(3)
UN Number	:	Un2929
Packing Group	:	II
Additional Info	:	FP 54C

SECTION 15 - REGULATORY INFORMATION

US FEDERAL

TSCA
CAS# 109-04-6 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.

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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# 109-04-6 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

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:

No information available.
Risk Phrases:
R 10 Flammable.
R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R 36 Irritating to eyes.

Safety Phrases:
S 16 Keep away from sources of ignition - No smoking.
S 33 Take precautionary measures against static discharges.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 9 Keep container in a well-ventilated place.

WGK (Water Danger/Protection)
CAS# 109-04-6: No information available.

Canada - DSL/NDSL
CAS# 109-04-6 is listed on Canada's NDSL List.

Canada - WHMIS
This product does not have a WHMIS classification.

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.

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