

 <p>CHEMLABS Quality Our Forte</p>	<p>LEONID CHEMICALS PVT. LTD., BANGALORE</p> <p>An ISO-9001:2008 Certified Company</p> <p>Quality Assurance Department</p>	<p>(CODE) DOCUMENT : WI (CODE) SECTION : W/SM (DATE) : 01.04.2010</p>	 <p>Issue : 02 Rev.: 00</p>
<p>Title: MATERIAL SAFETY DATA SHEET (MSDS): 2, 6-DIBROMO PYRIDINE</p>			<p>1 Page of 1</p>

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product details:

Product name: 2, 6-Dibromo pyridine

Stock number: D041

Company Information:

LEONID CHEMICALS Pvt Ltd,

62/A-2, 1st Stage,

Yeshvanthpur Industrial Suburb,

Asoka puram School Road,

Bangalore -22, Karnataka, INDIA

Ph- +91-80-23378354

Fax: +918023378354/23377126

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

Chemical characterization:

Description: (CAS#)

2, 6-Dibromopyridine (CAS# 626-05-1): Min 98%

Identification number(s): EINECS

Number: 210-926-9

SECTION 3- HAZARDS IDENTIFICATION

Hazard description:

Xi Irritant

Information pertaining to particular dangers for man and environment

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

Classification system

HMS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 1

Flammability = 1 Reactivity = 1

SECTION 4- FIRST AID MEASURES

After inhalation:

 <p>CHEMLABS Quality Our Forte</p>	<p>LEONID CHEMICALS PVT. LTD., BANGALORE</p> <p>An ISO-9001:2008 Certified Company</p> <p>Quality Assurance Department</p>	<p>(CODE) DOCUMENT : WI (CODE) SECTION : W/SM (DATE) : 01.04.2010</p>	 <p>Issue : 02 Rev.: 00</p>
<p>Title: MATERIAL SAFETY DATA SHEET (MSDS): 2, 6-DIBROMO PYRIDINE</p>			<p>2 Page of 1</p>

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Seek immediate medical advice.

SECTION 5- FIRE FIGHTING MEASURES

Suitable extinguishing agents:

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

Hydrogen bromide (HBr)

Protective equipment:

Wear self-contained respirator. Wear fully protective impervious suit.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting:

Ensure adequate ventilation.

Additional information:

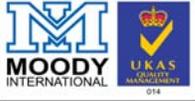
See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7 - HANDLING AND STORAGE

Handling:

	<p style="text-align: center;">LEONID CHEMICALS PVT. LTD., BANGALORE</p> <p style="text-align: center;">An ISO-9001:2008 Certified Company</p> <p style="text-align: center;">Quality Assurance Department</p>	<p>(CODE) DOCUMENT : WI</p> <p>(CODE) SECTION : W/SM</p> <p>(DATE) : 01.04.2010</p>	 <p>Issue : 02</p> <p>Rev.: 00</p>
<p>Title: MATERIAL SAFETY DATA SHEET (MSDS): 2, 6-DIBROMO PYRIDINE</p>			<p>3 Page of 1</p>

Information for safe handling:

Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away.

Storage:

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Not required.

Additional information:

No data

Personal protective equipment General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands:

Impervious gloves Check protective gloves prior to each use for their proper condition.

Material of gloves:

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

 <p>CHEMLABS Quality Our Forte</p>	<p>LEONID CHEMICALS PVT. LTD., BANGALORE</p> <p>An ISO-9001:2008 Certified Company</p> <p>Quality Assurance Department</p>	<p>(CODE) DOCUMENT : WI (CODE) SECTION : W/SM (DATE) : 01.04.2010</p>	 <p>Issue : 02 Rev.: 00</p>
<p>Title: MATERIAL SAFETY DATA SHEET (MSDS): 2, 6-DIBROMO PYRIDINE</p>			<p>4 Page of 1</p>

Eye protection:
Safety glasses

Body protection:
Protective work clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form : Powder
Color : Off-white
Odor : Not determined
Value/Range Unit Method Change in condition
Melting point/Melting range : 118-119 ° C
Boiling point/Boiling range : Not determined
Sublimation temperature/start : Not determined
Flash point : Not applicable
Ignition temperature : Not determined
Decomposition temperature : Not determined

Danger of explosion:
Product does not present an explosion hazard.

Explosion limits:

Lower : Not determined
Upper : Not determined
Vapor pressure : Not determined
Density : Not determined
Solubility in / Miscibility with Water: Not determined

SECTION 10 - STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:
Decomposition will not occur if used and stored according to specifications.

Materials to be avoided:
Oxidizing agents

Dangerous reactions:
No dangerous reactions known

Dangerous products of decomposition:
Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen bromide

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:
Primary irritant effect:
On The Skin : Irritant to skin and mucous membranes.

 <p>CHEMLABS Quality Our Forte</p>	<p>LEONID CHEMICALS PVT. LTD., BANGALORE</p> <p>An ISO-9001:2008 Certified Company</p> <p>Quality Assurance Department</p>	<p>(CODE) DOCUMENT : WI (CODE) SECTION : W/SM (DATE) : 01.04.2010</p>	 <p>Issue : 02 Rev.: 00</p>
<p>Title: MATERIAL SAFETY DATA SHEET (MSDS): 2, 6-DIBROMO PYRIDINE</p>			<p>5 Page of 1</p>

On The Eye : Irritating effect.

Sensitization:

No sensitizing effects known.

Sub acute To Chronic Toxicity:

Other than potential irritation (see above), no information on illness or injury to humans from acute or chronic exposure to this product is available.

Additional Toxicological Information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

SECTION 12 - ECOLOGICAL INFORMATION

General notes:

Do not allow material to be released to the environment without proper governmental permits.

SECTION 13 - DISPOSAL CONSIDERATIONS

Product: Recommendation

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14 - TRANSPORT INFORMATION

Not a hazardous material for transportation.

DOT regulations: Hazard class: None

Land transport ADR/RID (cross-border) ADR/RID class: None

Maritime transport IMDG: IMDG Class: None

Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: None

Transport/Additional information:

Not dangerous according to the above specifications.

 <p>CHEMLABS Quality Our Forte</p>	<p>LEONID CHEMICALS PVT. LTD., BANGALORE</p> <p>An ISO-9001:2008 Certified Company</p> <p>Quality Assurance Department</p>	<p>(CODE) DOCUMENT : WI (CODE) SECTION : W/SM (DATE) : 01.04.2010</p>	 <p>Issue : 02 Rev.: 00</p>
<p>Title: MATERIAL SAFETY DATA SHEET (MSDS): 2, 6-DIBROMO PYRIDINE</p>			<p>6 Page of 1</p>

SECTION 15 - REGULATORY INFORMATION

Product Related Hazard Information:

Hazard Symbols:

Xi Irritant

Risk Phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

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

37 Wear suitable gloves.

National Regulations:

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. Some or all of the components of this product are not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

Information about Limitation of Use:

For use only by technically qualified individuals.

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 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 has been advised of the possibility of such damages.

CHEMLABS
Quality Our Forte

 <p>CHEMLABS Quality Our Forte</p>	<p>LEONID CHEMICALS PVT. LTD., BANGALORE</p> <p>An ISO-9001:2008 Certified Company</p> <p>Quality Assurance Department</p>	<p>(CODE) DOCUMENT : R/QPM/8.2.4/06</p> <p>(CODE) SECTION : D041</p> <p>(DATE) : 01.04.2010</p>	 <p>Issue : 02 Rev.: 00</p>
<p>Title: SPECIFICATION MANUAL FOR 2, 6-DIBROMOPYRIDINE</p>			<p>1 Page of 1</p>

Specification For 2, 6-Dibromo pyridine

C₅H₃Br₂N

MW: 236.90

CAS No : 626-05-1
Product : 2, 6-Dibromo pyridine LR Grade
Description : Crystalline powder
Cat No : D041
Prepared Date : 07.03.2005
Approved Date : 07.03.2005

REVISION HISTORY			
Issue/Rev	Description of Change	Author	Effective Date
01/00	Initial Release	S. Paul Joshua	07.03.2005
02/00	Reviewed no changes	S. Paul Joshua	01.04.2010
Next Review Due :	02.04.2015		
To be reviewed by :	Head-QC/QA		

Sl. No.	Tests	Specification
		LR
1	Assay (GC)	≥ 97.0%
2	Melting point	117 - 119°C

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