SAFETY DATA SHEET

TEDIA®
High Purity Solvents

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All non-emergency numbers should be directed to Customer Service at 800-PURITY1

2, 6-LUTIDINE

SDS No. M0523

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 2,6-Lutidine
Synonyms: 2,6-Dimethylpyridine
Recommended Use: This product is recommended for laboratory and manufacturing use only. It is not recommended for drug, food or household use.

2. HAZARDS IDENTIFICATION

Classification:
Flammable Liquids: GHS Category 3
Acute Toxicity, Oral: GHS Category 4
Skin Irritation: GHS Category 2
Eye Irritation: GHS Category 2A

Label Elements
Signal Word: Warning!
Hazard Statements:

H226 – Flammable liquid and vapor.
H302 – Harmful if swallowed
H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation.

Precautionary Statements:

P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P243 – Take precautionary measures against static discharge.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 – If on skin or hair: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Emergency Overview

Harmful if swallowed. May cause irritation to eyes skin and respiratory tract. Hygroscopic. Flammable liquid and vapor. Target Organs: None.

HMIS Rating:

Health – 2 Flammability – 3 Physical Hazard – 0 PPE – User supplied

NOTE: HMIS ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. These ratings are based on the inherent properties of this chemical under expected conditions of normal use and are not intended to be used in emergency situations. PPE is determined by the user based on their needs and conditions.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS No	Percent	Hazardous
2, 6-Lutidine	108-48-5	>99%	Yes

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Ingestion: Get medial help immediately. If conscious and alert give the victim 2-4 cups of water or milk. If vomiting occurs naturally, have victim lean forward. Never give anything by mouth to an unconscious person.
Skin Contact: Remove any contaminated clothing. Rinse skin with water for at least 15 minutes. Get medical attention.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.
Notes to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flammability: Flammable liquid and vapor (GHS Category 3)
Auto-ignition Temperature: Not available.
Flash Point: 33° C (91° F)
Flammable Limits: Not available.
Products of Combustion: May decompose into irritating and highly toxic gases under fire conditions (Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen).
Specific Fire Hazards: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. 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. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.
Specific Explosion Hazards: Vapors may form an explosive mixture with air.
Fire Fighting 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. Use agent most appropriate to extinguish fire. Do NOT use straight streams of water.
National Fire Protective Association: Health - 2, Flammability - 3, Reactivity - 0

NOTE: NFPA ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. They are for use by emergency personnel to address the hazards that are presented by short term, acute exposure to this product under fire, spill, or similar emergencies. Ratings involve data and interpretations that may vary from company to company.

6. ACCIDENTAL RELEASE MEASURES

Absorb spilled liquid with sorbent pads, socks, or other inert material such as vermiculite, sand, or earth. Do not use sawdust or any combustible material. Use spark-proof tools. Provide ventilation to the affected area and remove all ignition

sources. Approach the spill from upwind and pick up absorbed material and place it in a suitable container. Always use proper personal protective equipment as described in section 8.

7. HANDLING AND STORAGE

Precautions: Always use proper personal protective equipment as described in section 8. Wash thoroughly after handling. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash before reuse. Empty containers contain product residue (liquid and vapor) and can be dangerous. Keep container tightly closed and away from heat, spark, and flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks, or open flames. Use with adequate ventilation. Avoid breathing vapor or mist.
Storage: Keep in a flammables area away from all sources of ignition and oxidizing materials. Keep in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or using the material should be equipped with eyewash station and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Personal Protection: Wear protective chemical goggles or other appropriate eye protection. Use butyl rubber gloves and protective clothing to prevent skin exposure. A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever possible. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
Exposure Limits: None established.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance: Yellow liquid.
Odor: None reported
Molecular Formula: C_7H_9N
Molecular Weight: 107.15
Auto-ignition Temperature: Not available.
Flash Point: 33° C (91° F)
Flammable Limits: Not available.
pH: Not available.
Boiling Point: 143-145° C @ 760 mm Hg
Freezing/Melting Point: -6° C
Decomposition Temperature: Not available
Specific Gravity: 0.920 g/cm^3
Vapor Density (Air=1): 3.7
Vapor Pressure: 4 mm Hg @ 20° C.
Viscosity: Not available
Solubility: 40g/100ml in water @ 20° C

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, ignition sources, moisture, excess heat.
Incompatibility With Various Substances: Strong oxidizing agents, acids, chloroformates, acid chlorides.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.
Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, skin absorption, skin contact
Acute Exposure Hazards:
INHALATION HAZARD: May cause respiratory tract irritation. Vapors may cause dizziness or suffocation.
INGESTION HAZARD: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
SKIN CONTACT HAZARD: May cause skin irritation.
EYE CONTACT HAZARD: May cause eye irritation.
Chronic Exposure Hazards: Not available.
Animal Toxicity:
Dermal, guinea pig: LD50 = 2500 mg/kg;
Oral, rat: LD50 = 400 mg/kg;
Carcinogenicity: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65
Epidemiology: Not available.
Teratogenicity: Not available.
Reproductive Effects: Not available.
Mutagenicity: Not available.
Neurotoxicity: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Invertebrates: LC100 (24 hr) Tetrahymena pyriformis 3.50 g l-1 (1). EC50 (5-30 min);
Photobacterium phosphoreum 117 mg l-1 Microtox test (2);
Environmental Fate: No information available

13. DISPOSAL CONSIDERATIONS

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions found in 40 CFR 261.3. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

US DOT
Proper Shipping Name: Flammable Liquid, n.o.s. (2,6-Dimethylpyridine)
Hazard Class: 3
UN Number: UN1993
Packing Group: III

IMDG
Proper Shipping Name: Flammable Liquid, n.o.s. (2,6-Dimethylpyridine)
Hazard Class: 3
UN Number: UN1993
Packing Group: III

IATA
Proper Shipping Name: Flammable Liquid, n.o.s. (2,6-Dimethylpyridine)

Hazard Class: 3
UN Number: UN1993
Packing Group: III

15. REGULATORY INFORMATION

US Federal Regulations:

CERCLA Hazardous Substances: CAS# 108-48-5 does not have a RQ
SARA Section 302: Does not have a TPQ
SARA Codes: CAS# 108-48-5 – immediate, fire
Section 313: 2, 6-Lutidine (CAS# 108-48-5) is subject to SARA Title III Section 313 and 40 CFR 373 reporting requirements.
OSHA: Not considered highly hazardous by OSHA.

US State Regulations:

CAS# 108-48-5 is listed on state right-to-know lists in Massachusetts, New Jersey, and Pennsylvania.

16. OTHER INFORMATION

Originally Prepared: 8/27/2009
Last Revised: 05/09/2017 – Updated Signal Word in Section 2 and proper shipping name, product UN number and hazard class Section 14.

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