Material Safety Data Sheet
2,6-Lutidine

Section 1 - Product Identification

Synonyms : 2,6-Dimethylpyridine
Molecular Weight : 107.15 g/mol
Chemical Formula : C_7H_9N
Company Identification : Tradeasia International Pte. Limited
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore
Tel: +65-6227 6365
Fax: +65-6225 6286
Email: contact@chemtradeasia.com

Recommended use of the chemical and restrictions on use:
The product is used as a laboratory chemical. Not for food, drug, pesticide or biocidal product use.

Section 2 – Composition/Information on Ingredients

The product contains greater than 95 percent (%) 2,6-Lutidine

Chemical Name	EC/CAS No	Purity, %
2,6-Lutidine	203-587-3/108-48-5	min. 95.0

Section 3 – Hazards Identification

3.1 Classification of the substance or mixture
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
3.2 Label elements
The product needs to be labelled with a danger sign.
3.3 Other hazards
Potential health effects
Eye
Causes serious eye irritation.
Skin
Causes skin irritation.
Ingestion
Harmful if swallowed
Inhalation
May cause respiratory irritation.
Chronic
N.A

Section 4 – First-Aid Measures

4.1. Description of first aid measures
Skin contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Inhalation

Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

4.3. Indication of any immediate medical attention and special treatment needed

N.A.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

5.2. Specific hazards arising from the chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

5.3. Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4. Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx)

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat and sources of ignition. Protect from moisture.

Section 8 – Exposure Controls/Personal Protection

8.1. Control parameters

8.2. Appropriate engineering controls

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Eyes and hands protection

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.

Body protection

Long sleeved clothing.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Light yellow liquid
Odour: Mint-like
Odour threshold: N.A.
pH: No information available
Melting point: -6°C
Boiling point: 143-145°C
Flash point: 33°C
Evaporation rate: N.A
Flammability: Not applicable
Upper/lower flammability or explosive limits: N.A
Vapour pressure: 4mmHg @ 20°C
Vapour density: 3.7
Relative density: 0.920
Solubility in water: soluble
Partition coefficient: n-octanol/water: N.A
Auto-ignition temperature: No information available
Decomposition temperature: No information available
Viscosity: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.

Section 10 – Stability and Reactivity

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Hygroscopic

10.3. Possibility of hazardous reactions

None under normal processing

10.4. Conditions to avoid:

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

Section 11 – Toxicological Information

Information on toxicological effects

LD50/LC50:

Oral, rat: LD50 = 400 mg/kg

Acute toxicity

N.A

Skin corrosion / irritation

Irritating to eyes, respiratory system and skin

Serious eye damage/ irritation

Irritating to eyes, respiratory system and skin

Respiratory or skin sensitization

Irritating to eyes, respiratory system and skin

Germcell mutagenicity

DNA Inhibition: Human, Lymphocyte = 600 mmol/L.; Cytogenetic Analysis: Human, Leukocyte = 50 mmol/L.; DNA Damage: Mouse, Lymphocyte = 628 mmol/L.; Mutation in Mammalian Somatic Cells: Mouse, Lymphocyte = 265 mmol/L

Carcinogenicity

N.A.

Reproductive toxicity

Intraplacental, woman: TDLo = 1400 mg/kg (female 16-week(s) after conception) Fertility - abortion.
Intraplacental, woman: TDLo = 1600 mg/kg (female 16-week(s) after conception) Fertility - abortion.

STOT-single exposure

N.A.

STOT-repeated exposure

N.A.

Aspiration Hazard

N.A.

Potential health effects

RTECS: N.A

Section 12 – Ecological Information

12.1. Toxicity

Do not empty into drains.

12.2. Persistence and degradability

Persistence is unlikely

12.3. Bioaccumulative potential

N.A

12.4. Mobility in soil

Will likely be mobile in the environment due to its water solubility

12.5. Other adverse effects

N.A

Section 13 – Disposal Considerations

13.1. Disposal methods

Product

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated Packaging

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14 – Transport Information

14.1. UN number: UN1993

14.2. UN proper shipping name: FLAMMABLE LIQUIDSM N.O.S

14.3. Transport of hazard classes: 3

14.4. Packing group: III

14.5. Environmental hazards: N.A.

14.6. Special precautions for user: N.A

14.7. Incompatible materials: N.A.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations for the substance/mixture

Notification status:

U.S. EPA TSCA Inventory	On the inventory, or in complicance with the inventory
Canadian DSL	On the inventory, or in complicance with the inventory
EINECS	On the inventory, or in complicance with the inventory
South Korea	On the inventory, or in complicance with the inventory
Japanese MITI	On the inventory, or in complicance with the inventory

Ensure all national/local regulations are observed.

Section 16: Additional Information

16.1. Mainly changes made to the previous version of this Material Safety Data Sheet (MSDS):

N.A.

16.2. List of abbreviation and acronyms used in this MSDS

SDS: Safety Data Sheets

Index N°: atomic number of the element most characteristic of the properties of the substance

CAS No: Chemical Abstracts Service number

EC No: EINECS Number: European Inventory of Existing Commercial Substances

Repr. Cat. 2: Substance presumed human reproductive toxicant

Acute Oral Cat. 5: Substance which is of relatively low acute oral toxicity.
GHS: Globally Harmonised System of Classification and Labelling
LD_{50}: Median Lethal Dose
LC_{50}: Lethal Concentration, 50%
N.A.: Not Applicable
Japanese MITI: Japanese Ministry of International Trade and Industry
EC_{50}: Half maximal effective concentration
UN: United Nations
U.S. EPA TSCA Inventory: Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the autority of the Environmental Protection Agency
Canadian DSL: Canadian Domestic Substances List

16.5. Disclaimer of Liability

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