

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Pyridine

CAS number 110-86-1

Synonyms Azine, Azabenzine

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2)

Acute oral toxicity (Category 4)

Acute dermal toxicity (Category 4)

Acute inhalation toxicity - vapors (Category 4)

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2)

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Specific target organ toxicity - single exposure (Category 3)
Target organs: Respiratory system, Central nervous system (CNS)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements

Prevention Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/sho

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Fire In case of fire: Use CO2, dry chemical, or foam for extinction

Storage Store in a well-ventilated place. Keep cool

Disposal Dispose of contents/container to an approved waste disposal plant

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

WARNING! This product contains a chemical known in the State of California to cause cancer.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Pyridine	Azine; Azabenzine	110-86-1	>95%

SECTION 4: First aid measures

4.1 Description of first-aid measures

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General advice

If inhaled Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-

mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is

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In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get medical

attention immediately if symptoms occur.

In case of eye contact Rinse off immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed If swallowed, DO NOT induce vomiting. Obtain medical attention if symptoms

occur.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media CO2, dry chemical, dry sand, alcohol-resistant foam.

Cool closed containers exposed to fire with water

spray.

Unsuitable extinguishing media Water spray may be ineffective.

5.2 Specific hazards arising from the substance or mixture

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

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition may lead to release of irritating gases and vapors.

5.4 Further information

Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen cyanide (Hydrocyanic acid), Nitrogen oxides (NOx)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

6.3 Methods and materials 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.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Use only under a chemical hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Aviod ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges.

Hygiene measures

No information available

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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

Incompatibilities

No information available

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value	
Pyridine	TWA	5 ppm	15 mg/m3

US. ACGIH Threshold Limit Values

Component	Type	Value	
Pyridine	TWA	1 ppm	

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US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value	
Pvridine	IDLH	1000 ppm	
Fyndine	TWA	5 ppm	15 mg/m3

8.2 Exposure controls

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.

Personal protective equipment

Eye/face 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.

Skin protection

Wear appropriate protective clothing and gloves to prevent skin exposure.

Body Protection

Wear appropriate gloves to prevent skin exposure.

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.

Control of environmental exposure

No information available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Colorless
Odor Fishy

Odor Threshold No information available pH 8.5 15 g/l aq. solution

Melting Point/Range -42°C / -43.6°F

Boiling Point/Range 115 - 116°C / 239 - 240.8°F

Evaporation Rate No information available Flammability (solid) No information available

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Flammability or explosive limit

Upper: 12.4 vol % Lower: 1.8 vol %

Vapor Pressure 20 mbar @ 20 °C Vapor Density 2.73 (Air = 1.0)

Density 0.978

Solubility Soluble in water

Partition coefficient; n-octanol/water No information available Autoignition Temp 482°C / 899.6°F No information available

Viscosity

No information available

0.95 mPa.s at 20 °C

Molecular Formula C5 H5 N Molecular Weight 79.1

VOC Content(%) No information available

Flash point 17°C / 62.6°F

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None likely under normal processing conditions.

10.4 Conditions to avoid

Incompatible products. Excess heat.

10.5 Incompatible materials

Strong acids, alkaline, oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen cyanide (hydrocyanic acid), Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

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Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Pyridine	891 mg/kg (Rat)	1121 mg/kg (Rabbit)	28500 mg/m3 (Rat) - 1h

Skin corrosion/irritation

Irritating to eyes and skin

Serious eye damage/eye irritation

Irritating to eyes

Respiratory or skin sensitization

See section 2 for full list of hazards and precautions.

Germ cell mutagenicity

No information available

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Pyridine	110-86-1	Not listed	Not listed	A3	Not listed	Not listed

Specific target organ toxicity - single exposure

Respiratory system, Central nervous system

Specific target organ toxicity - repeated exposure

None known.

Reproductive toxicity

No information available

Chronic effects

No information available

11.2 Additional Information

See actual entry in RTECS for complete information.

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
	EC50	Freshwater Algae	520 mg/L - 24h
			26 mg/L - 96h
Pyridine	LC50	Freshwater fish	63.4 - 73.6 mg/L - 96h
			4.6 mg/L - 96h
	EC50	Water Flea	520 mg/L - 24h

12.2 Persistence and degradability

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No information available

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

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

DOT (US)

UN number: UN1282
Proper shipping name: PYRIDINE

Hazard Class 3 Packaging Group II

IMDG

UN number: UN1282
Proper shipping name: PYRIDINE

Hazard Class 3 Packaging Group II

IATA

UN number UN1282
Proper shipping name PYRIDINE

Hazard Class 3
Packaging Group II

SECTION 15: Regulatory information

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US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Pyridine: 1000 lb

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Acute Health Hazard Chronic Health Hazard Fire Hazard

SARA 313 (TRI reporting)

Threshold values: 1.0

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor

Manufacturing Workplace

Not regulated

Food and Drug Administration (FDA)

Not regulated

US state regulations

US. Massachusetts RTK - Substance List

Listed

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US. New Jersey Worker and Community Right-to-Know Act Listed

US. Pennsylvania Worker and Community Right-to-Know Law Listed

California Proposition 65

Listed

SECTION 16: Other information

Revision date: 06/19/2024

Revision number: 1

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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