# ChemPure\* Brand Chemicals

## **Safety Data Sheet**

## Pyridine, ACS

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Pyridine, ACS

Synonyms/Generic Names: Azine, Azabenzene

Product Number: CP-B7000, CP-C7000

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: ChemPure Brand Chemicals

39103 Warren Road Westland, MI 48185

For More Information Call: 734-729-1805 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

#### 2. HAZARDS IDENTIFICATION

OSHA Hazards: Flammable liquid, Harmful by ingestion, Harmful by skin absorption, Carcinogen

Target Organs: Kidney, Liver, Bone marrow, Nerves

Signal Word: Danger

Pictograms:







#### **GHS Classification:**

Flammable liquids	Category 2
Acute toxicity, Oral	Category 4
Acute toxicity, Inhalation	Category 4
Acute toxicity, Dermal	Category 4
Skin irritation	Category 3
Serious eye damage	Category 1
Acute aquatic toxicity	Category 3

## **GHS Label Elements, including precautionary statements:**

#### Hazard Statements:

H225	Highly flammable liquid and vapor.
H302+H312	Harmful if swallowed or in contact with skin.
H316	Causes mild skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H402	Harmful to aquatic life.

#### **Precautionary Statements:**

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P280	Wear protective gloves/ eye protection/ face protection.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
	lenses, if present and easy to do. Continue rinsing.	

#### **Potential Health Effects**

Eyes	Causes eye irritation.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	Harmful if absorbed through skin. Causes skin irritation.
Ingestion	Harmful if swallowed.

#### **NFPA Ratings**

Health	2
Flammability	3
Reactivity	0
Specific hazard	Not Available

#### **HMIS Ratings**

Health	2
Fire	3
Reactivity	0
Personal	J

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Pyridine	100	110-86-1	203-809-9	C <sub>5</sub> H <sub>5</sub> N	79.10 g/mol

## 4. FIRST-AID MEASURES

Eyes	In case of eye contact, rinse with plenty of water and seek medical attention.	
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not	
	breathing, give artificial respiration. Get medical attention.	
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated	
	clothing and wash using soap. Get medical attention.	
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If	
	conscious, wash out mouth with water. Get medical attention.	

#### 5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use appropriate media for adjacent fire. Cool unopened containers with water.	
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.	
Specific hazards arising from the chemical	Emits toxic fumes (carbon oxides, nitrogen oxides) under fire conditions. (See also Stability and Reactivity section).	

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment
	may be subject to federal/national or local reporting requirements.
Methods and materials for	Neutralize spill. Absorb spill with noncombustible absorbent material,
containment and cleaning up	then place in a suitable container for disposal. Clean surfaces thoroughly
	with water to remove residual contamination. Dispose of all waste and
	cleanup materials in accordance with regulations.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

#### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Handle and store under inert gas. Keep away from incompatible materials (see section 10 for incompatibilities).

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Pyridine	1 ppm 3.1 mg/m <sup>3</sup>	TLV	ACGIH
	5 ppm 15 mg/m <sup>3</sup>	PEL	OSHA
	5 ppm 15 mg/m <sup>3</sup>	REL	NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

#### **Personal Protection**

Eyes	Wear chemical safety glasses or goggles.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat.
Other	Not Available

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Colorless liquid.
Odor	Not Available
Odor threshold	Not Available
pH	8.5 at 15.82 g/l at 25°C (77°F)
Melting point/freezing point	-42°C (-44°F)
Initial boiling point and boiling range	115°C (239°F)
Flash point	17°C (62.6°F)
Evaporation rate	Not Available
Flammability (solid, gas)	Flammable
Upper/lower flammability or explosive limit	Lower: 1.8 %(V) Upper: 12.4 %(V)
Vapor pressure	13.3 hPa (10.0 mmHg) at 13.2°C (55.8°F)
	26.7 hPa (20.0 mmHg) at 25°C (77°F)
Vapor density	Not Available
Density	0.978 g/cm3 at 25°C (77°F)
Solubility (ies)	Not Available
Partition coefficient: n-octanol/water	log Pow: 0.65
Auto-ignition temperature	482°C (899.6°F)
Decomposition temperature	Not Available

#### 10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Heat, flames and sparks. Extremes of temperature and direct
	sunlight.
Incompatible Materials	Strong oxidizing agents, strong acids.
Hazardous Decomposition Products	Carbon oxides, nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

Skin	LD50 Dermal - rabbit - 1,121 mg/kg	
Eyes	Not Available	
Respiratory	LC50 Inhalation - rat - 1 h - 28,500 mg/m3	
Ingestion	LD50 Oral - rat - 891.0 mg/kg	

#### Carcinogenicity

	,	
IARC	3 - Group 3: Not classifiable as to its carcinogenicity to humans (Pyridine).	
ACGIH	A3: Animal carcinogen (Pyridine).	
NTP	No components of this product present at levels greater than or equal to 0.1% is identified	
	as a known or anticipated carcinogen by NTP.	
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified	
	as a carcinogen or potential carcinogen by OSHA.	

## Signs & Symptoms of Exposure

Skin	Irritation, redness, itchiness.	
Eyes	Irritation, redness, watering eyes, itchiness.	
Respiratory	Irritation, coughing, wheezing, burning sensation, dizziness.	
Ingestion	Irritation, nausea, vomiting, diarrhea, loss of appetite, nervousness.	

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Aquatic Vertebrate	LC50 - Pimephales promelas (fathead minnow) - 93.80 mg/l - 96 h LC50 - Cyprinus carpio (Carp) - 26.00 mg/l - 96 h
Aquatic Invertebrate	EC50 - Daphnia magna (Water flea) - 940.00 mg/l - 48 h
	EC50 - Daphnia magna (Water flea) - 1,140.00 mg/l - 48 h
	EC50 - Daphnia pulex (Water flea) - 520.00 mg/l - 48 h
Terrestrial	EC50 - SELENASTRUM - 100.00 - 180.00 mg/l - 72 h

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Harmful to aquatic life.

#### 13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

#### 14. TRANSPORTATION INFORMATION

US DOT	UN1282, Pyridine, 3, pg II
TDG	UN1282, PYRIDINE, 3, pg II
IMDG	UN1282, PYRIDINE, 3, pg II
Marine Pollutant	No
IATA/ICAO	UN1282, Pyridine, 3, pg II

#### 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Listed: Pyridine
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Pyridine
SARA 312	Pyridine
SARA 313	Listed: Pyridine
WHMIS Canada	CLASS B2: Flammable liquid.
	CLASS D-2B: Toxic material causing other toxic effects.

#### 16. OTHER INFORMATION

Revision	Date
Revision 1	08-10-2012

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