



## Material Safety Data Sheet

### Pyridine barbituric acid solution

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Pyridine barbituric acid solution

**Catalog Numbers:**

LC22190

**Synonyms:****Company Identification:**

LabChem, Inc.  
200 William Pitt Way  
Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

#### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7647-01-0	Hydrochloric acid	6% v/v
67-52-7	Barbituric acid	6%
110-86-1	Pyridine	30%

#### Section 3 - Hazards Identification

**Potential Health Effects****Eye:**

May cause moderate eye irritation.

**Skin:**

May cause moderate skin irritation.

**Ingestion:**

May cause nausea, vomiting, and difficulty in breathing.

**Inhalation:**

Will cause irritation to nose, throat, mucous membranes, and respiratory tract.



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#### Chronic:

Chronic exposure may result in dental erosion, jaw necrosis, respiratory disease, dermatitis, conjunctivitis, corneal scarring and fever.

## Section 4 - First Aid Measures

#### Eyes:

Get medical aid at once. Immediately flush eyes with water lifting upper/lower lids occasionally until chemical is gone (15-20 min.) Cover burns with loose sterile non-medicated bandages.

#### Skin:

Get medical aid at once. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

#### Ingestion:

Give conscious victim 2-4 cupfuls of milk or water. Get medical aid at once.

#### Inhalation:

Get medical aid at once. Move victim to fresh air immediately. Give artificial respiration if necessary.

#### Notes to Physician:

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

#### General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, cool with fog or spray. Avoid breathing vapors, use approved respirator if necessary.

#### Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or regular foam.

#### Autoignition Temperature:

No information found.

#### Flash Point:

No information found.

#### NFPA Rating:

CAS# 7732-18-5: Not published.

CAS# 7647-01-0: Not published.

CAS# 67-52-7: Not published.

CAS # 110-86-1 health-3; flammability-3; reactivity-0

#### Explosion Limits:

Lower:      Upper:

## Section 6 - Accidental Release Measures

#### General Information:

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. If area is to be washed down, use flooding amounts of water, otherwise keep out of drains and sewers.



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### Section 7 - Handling and Storage

**Handling:**

Protect from heat and incompatible materials.

**Storage:**

Store capped in refrigerator.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Use adequate general or local, explosion-proof ventilation to keep airborne levels to acceptable levels.

**Exposure Limits**

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Hydrochloric acid	None of the components are on this list.	None of the components are on this list.	C 5 ppm; C 7 mg/m <sup>3</sup> ;
Barbituric acid	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Pyridine	5 ppm TWA	5 ppm TWA; 15 mg/m <sup>3</sup> TWA	5 ppm TWA; 15 mg/m <sup>3</sup> TWA;

**OSHA Vacated PELs**

Pyridine: 5 ppm TWA; 15 mg/m<sup>3</sup> TWA

**Personal Protective Equipment****Eyes:**

Provide an eye-wash fountain in the immediate work area. Do not wear contact lenses when working with chemicals.

**Skin:**

Wear neoprene gloves, apron, and/or clothing.

**Clothing:**

Wear neoprene gloves, apron, and/or clothing.

**Respirators:**

to 50 ppm: CC RAG/SA/SCBA F. to 100 ppm: CC RABF/GMAG/SAF/SCBA F. escape: GMOG/SCBA

### Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid

**Color:** Colorless

**Odor:** Pungent odor

**pH:** No information found.

**Vapor Pressure:** No information found.

**Vapor Density:** No information found.

**Evaporation Rate:** No information found.

**Viscosity:** No information found.



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**Boiling Point:** No information found.  
**Freezing/Melting Point:** No information found.  
**Decomposition Temperature:** No information found.  
**Solubility in water:** Soluble.  
**Specific Gravity/Density:** No information found.  
**Molecular Formula:** No information found.  
**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Incompatible materials.

### Incompatibilities with Other Materials

Oxidizing agents.

### Hazardous Decomposition Products

None.

### Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

### RTECS:

CAS# 7732-18-5: ZC0110000.  
CAS# 7647-01-0: MW4025000.  
CAS# 67-52-7: CP8000000.  
CAS# 110-86-1: UR8400000.

### LD50/LC50:

CAS# 7732-18-5:  
Oral, rat: LD50 = >90 mL/kg.  
CAS# 7647-01-0:  
Inhalation, mouse: LC50 = 1108 ppm/1H  
Inhalation, rat: LC50 = 3124 ppm/1H  
Oral, rabbit: LD50 = 900 mg/kg.  
CAS# 67-52-7:  
Oral, rat: LD50 = >5 gm/kg.  
CAS# 110-86-1:  
Oral, mouse: LD50 = 1500 mg/kg  
Oral, rat: LD50 = 891 mg/kg  
Skin, rabbit: LD50 = 1121 mg/kg.

### Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.  
CAS# 7647-01-0  
ACGIH: Not listed.  
California: Not listed.  
NIOSH: Not listed.



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NTP:Notlisted.

OSHA:Notlisted.

IARC: Group 3

CAS# 67-52-7: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 110-86-1

ACGIH: Not listed.

California:Notlisted.

NIOSH: Not listed.

NTP:Notlisted.

OSHA:Notlisted.

IARC: Group 3

#### Epidemiology:

Pyridine causes irritation to eyes and mucous membranes. Hydrochloric acid is a severe eye, mucous membrane, and skin irritant.

#### Teratogenicity:

#### Reproductive:

#### Mutagenicity:

#### Neurotoxicity:

### Section 12 - Ecological Information

No information found.

### Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

### Section 14 - Transport Information

#### US DOT

**Shipping Name:** Hydrochloric acid, solution

**Hazard Class:** 8

**UN Number:** UN1789

**Packing Group:** PG II

### Section 15 - Regulatory Information

#### US Federal

##### TSCA

CAS#7732-18-5 is listed on the TSCA Inventory.

CAS#7647-01-0 is listed on the TSCA Inventory.

CAS#67-52-7 is listed on the TSCA Inventory.

CAS#110-86-1 is listed on the TSCA Inventory.



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### SARA Reportable Quantities (RQ)

CAS#7647-01-0:finalRQ=5000pounds(2270kg)

CAS#110-86-1:finalRQ=1000pounds(454kg)

### CERCLA/SARA Section 313

This material contains Hydrochloric acid (CAS#7647-01-0, 6v/v%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

This material contains Pyridine (CAS#110-86-1, 30%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

### OSHA - Highly Hazardous

CAS#7647-01-0 is considered highly hazardous by OSHA.

### US State

#### State Right to Know

Hydrochloric acid can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

Pyridine can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

#### California Regulations

### European/International Regulations

#### Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7647-01-0 is listed on Canada's DSL List.

CAS# 67-52-7 is listed on Canada's DSL List.

CAS# 110-86-1 is listed on Canada's DSL List.

#### Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7647-01-0 is listed on Canada's Ingredient Disclosure List.

CAS# 67-52-7 is not listed on Canada's Ingredient Disclosure List.

CAS# 110-86-1 is listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: October 21, 1997

Revision Date: November 5, 2008

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