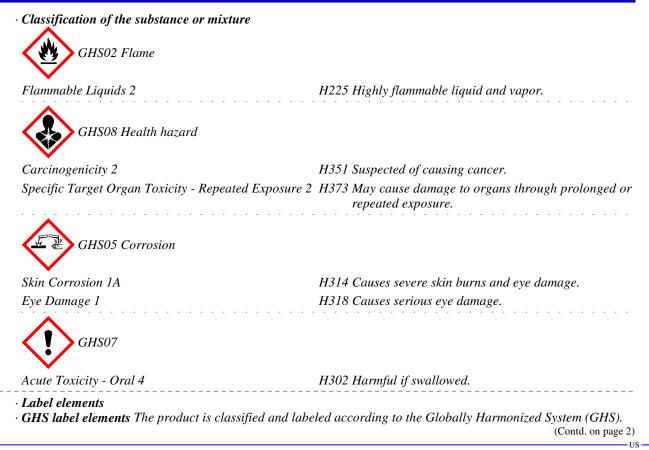
Printing date 07/18/2024

Reviewed on 07/18/2024

### **1** Identification

- · Product identifier
- Trade name: <u>Pyridine-Barbituric Acid</u> APHA For Cyanide Analysis
- · Article number: CY127
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536
- USA 800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- *Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666*

## 2 Hazard(s) identification





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	APHA For Cyanide Analysis

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· HMIS-ratings (scale 0 - 4)

HEALTH
$$3$$
Health =  $3$ FIRE $2$ Fire =  $2$ REACTIVITY $0$ Reactivity =  $0$ 

· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

\*

### **3** Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

onents:	
Pyridine	29.352%
Hydrochloric Acid	6.876%
Water	57.794%
Barbituric Acid, 99%	5.979%
	onents: Pyridine Hydrochloric Acid ardous Ingredients Water Barbituric Acid, 99%

### 4 First-aid measures

- Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

## **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

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## Safety Data Sheet acc. to OSHA HCS

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### Trade name: Pyridine-Barbituric Acid APHA For Cyanide Analysis

#### · Advice for firefighters

### · Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons away.	
Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
PAC-1:	
CAS: 110-86-1 Pyridine	3 ppm
CAS: 7647-01-0 Hydrochloric Acid	1.8 pp
PAC-2:	
CAS: 110-86-1 Pyridine	19 pp
CAS: 7647-01-0 Hydrochloric Acid	22 pp
PAC-3:	
CAS: 110-86-1 Pyridine	3600* pp
CAS: 7647-01-0 Hydrochloric Acid	100 ppm

### 7 Handling and storage

#### · Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

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# Trade name: Pyridine-Barbituric Acid

## APHA For Cyanide Analysis

(Contd. of page 4)

Store in cool, dry conditions in well sealed receptacles. • Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:	
CAS: 110-86-1 Pyridine	
	Long-term value: 15 mg/m³, 5 ppm
REL	Long-term value: 15 mg/m³, 5 ppm
TLV	Long-term value: 1 ppm
	A3
CAS: 7647-01-0 Hydrochloric Acid	
NIOSH RECOMENDED EXP LIMI	Ceiling limit value: 7.0 mg/m3 mg/m <sup>3</sup>
PEL	Ceiling limit value: 7 mg/m³, 5 ppm
REL	Ceiling limit value: 7 mg/m³, 5 ppm
TLV	Ceiling limit value: 2 ppm
	A4

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  **Material of gloves** 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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# Safety Data Sheet acc. to OSHA HCS

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## Trade name: Pyridine-Barbituric Acid APHA For Cyanide Analysis

• Eye protection:



\*

Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and o	chemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Beige to Tan to Brown
Odor:	Acrid
Odor threshold:	Not determined.
<i>pH-value at 20 °C (68 °F):</i>	<2
Change in condition	
Melting point/Melting range:	Undetermined.
<b>Boiling point/Boiling range:</b>	100 °C (212 °F)
Flash point:	17 °C (62.6 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	550 °C (1,022 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1.7 Vol %
Upper:	10.6 Vol %
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F):	1.00357 g/cm <sup>3</sup> (8.37479 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wat	e <b>r):</b> Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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### Trade name: Pyridine-Barbituric Acid APHA For Cyanide Analysis

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57.8 %	
0.00~%	
0.0 g/l / 0.00 lb/gal	
6.0 %	
No further relevant information available.	
	0.00 % 0.0 g/l / 0.00 lb/gal 6.0 %

## **10** Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11** Toxicological information

· Information on toxicological effects

· Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

### ATE (Acute Toxicity Estimate)

 Oral
 LD50
 1,703 mg/kg

 Dermal
 LD50
 3,748 mg/kg

 Inhalative
 LC50/4h
 37.5 mg/l

#### · Primary irritant effect:

• on the skin: Strong caustic effect on skin and mucous membranes.

- on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

- Corrosive
- Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### · Carcinogenic categories

 · IARC (International Agency for Research on Cancer)
 2B

 CAS: 110-86-1 Pyridine
 2B

 · NTP (National Toxicology Program)
 2

 None of the ingredients is listed.
 2

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#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

#### · Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· DOT, IMDG, IATA	UN2924
· UN proper shipping name	
$\cdot DOT$	Flammable liquids, corrosive, n.o.s. (Pyridine, Hydrochloric Ac
· IMDG, IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Pyridi
,	Hydrochloric Acid)

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	(Contd. of pa
Transport hazard class(es)	
DOT	
3	
Class	3 Flammable liquids
Label	<i>3</i> , 8
IMDG	
Class	3 Flammable liquids
Label	3/8
ΙΑΤΑ	
Class Label	3 Flammable liquids
	3 (8)
Packing group	II
DOT, IMDG, IATA	Ш
Environmental hazards:	No
Marine pollutant:	
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	538 F-E,S-C
Segregation groups	(SGG1) Acids
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
~ ,	On cargo aircraft only: 5 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(EQ)$	Code: E2
• • • • • • • • • • • • • • • • • • •	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
	(Contd. on pag

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Trade name: Pyridine-Barbituric Acid APHA For Cyanide Analysis

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ACTIVE

ACTIVE

ACTIVE

ACTIVE

· UN "Model Regulation":

UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (PYRIDINE, HYDROCHLORIC ACID), 3 (8), II

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 110-86-1 Pyridine

• TSCA (Toxic Substances Control Act):

Water

Pyridine Hydrochloric Acid

Barbituric Acid, 99%

· Hazardous Air Pollutants

CAS: 7647-01-0 Hydrochloric Acid

· Proposition 65

· Chemicals known to cause cancer:

CAS: 110-86-1 Pyridine

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 110-86-1 Pyridine

·NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



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Reviewed on 07/18/2024

## Trade name: Pyridine-Barbituric Acid APHA For Cyanide Analysis

Hazard-determining components of labeling:         Pyridine         Hydrochloric Acid         Hazard statements         Highly flammable liquid and vapor.         Harmful if swallowed.         Causes severe skin burns and eye damage.         Suspected of causing cancer.         May cause damage to organs through prolonged or repeated exposure.         Precautionary statements         Obtain special instructions before use.         Do not handle until all safety precautions have been read and understood.         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.         Do not teat, drink or smoke when using this product.         Wear protective gloves/protective clohing/eye protection/face protection.         If swallowed: Call a poison center/doctor if you feel unwell.         If swallowed: Rinse mouth. Do NOT induce vomiting.         If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         IF INHALED: Remove person to fresh air and keep comfortable for breathing.         If in eyes: Rinse cautiously with water for several minutes. Remove cont
Pyridine Hydrochloric Acid Hazard statements Highly flammable liquid and vapor. Harmful if swallowed. Causes severe skin burns and eye damage. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. <b>Precautionary statements</b> Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 conly non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Parke mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
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<ul> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>Keep container tightly closed.</li> <li>Ground/bond container and receiving equipment.</li> <li>Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>Use only non-sparking tools.</li> <li>Take precautionary measures against static discharge.</li> <li>Do not breathe dusts or mists.</li> <li>Wash thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>If swallowed: Call a poison center/doctor if you feel unwell.</li> <li>If swallowed: Rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.</li> </ul>
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Immediately call a poison center/doctor.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Department issuing SDS: Environment protection department.

Contact: Date of Preparation / Last Revision:
Date of preparation / last revision Revision 1.2 07/18/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0 Creation date for SDS 12-03-2014. STN 07/18/2024 / 1.2

(Contd. on page 12)

<sup>—</sup> US

Printing date 07/18/2024

Reviewed on 07/18/2024

# Trade name: Pyridine-Barbituric Acid APHA For Cyanide Analysis

	(Contd. of page 11)
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A	
Eye Damage 1: Serious eye damage/eye irritation – Category 1	
Carcinogenicity 2: Carcinogenicity – Category 2	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2	
* Data compared to the previous version altered.	
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