

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/15/2018 Version: 2

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

#### 1.1. Product identifier

Product form : Mixture

Product name : PH-3 Na Amino Acid Buffer

Product code : ANO-8708

Other means of identification : PH-3 Buffer for L-8800(A)\L-8900

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

Use of the substance/mixture : Buffer

# 1.3. Details of the supplier of the safety data sheet

ADS Biotec Inc. 7409 Irvington Road Omaha, NE 68122 - USA support@adsbiotec.com

### 1.4. Emergency telephone number

Emergency Contact Number : USA: 1-800-255-3924 (CHEMTEL 24hr); International: +1-813-248-0585 (CHEMTEL 24hr)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Not classified

#### 2.2. Label elements

#### **GHS-US** labelling

No labeling applicable

# 2.3. Other hazards

Other hazards not contributing to the classification

: May cause eye irritation. Repeated or prolonged contact may cause skin irritation. May cause irritation to the respiratory tract.

# 2.4. Unknown acute toxicity (GHS-US)

No data available

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

#### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

# 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Citric Acid	(CAS No) 77-92-9	1 - 5	Eye Irrit. 2A, H319
Sodium Citrate	(CAS No) 64-04-2	2	Eye Irrit. 2A, H319
Ethanol	(CAS No) 64-17-5	0.3	Flam. Liq. 2, H225

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove to fresh air, keep the patient warm and at rest. If symptoms develop obtain medical

attention.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop obtain medical attention.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop obtain medical attention.

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First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Give 100 - 200 ml of water to drink. If symptoms develop obtain medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

# SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Explosion hazard : On exposure to high temperature, may decompose, releasing explosive vapours.

Reactivity : Stable under normal conditions.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid fire-fighting water enteing the environment.

Protection during firefighting : Fire fighters should wear complete protective clothing including self-contained breathing

apparatus. Do not enter fire area without proper protective equipment, including respiratory

protection.

#### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all contact with skin, eyes, or clothing.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

# 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection. Equip cleanup crew with proper

protection.

Emergency procedures : Remove ignition sources. Avoid contact with eyes, skin and clothing. Ensure adequate

ventilation. Ventilate area.

# 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with earth, sand or other non-combustible material and transfer to containers for later

disposal. Wash spill area with soapy water.

### 6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes

and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent

formation of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container tightly closed.

Incompatible products : Acids. Strong bases. Metals. Oxidizing agent. Reducing agents. combustible materials.

#### 7.3. Specific end use(s)

A buffer used for amino acid analysis by HPLC in a professional diagnostic or research laboratory.

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# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Ethanol (64-17-5)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

# 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Safety glasses with face shield.

Respiratory protection : In case of inadequate ventilation: Use an approved air purifying respirator to control exposure.

Follow respirator protection requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator

use.

Thermal hazard protection : Not required for normal conditions of use.

Environmental exposure controls : Not normally required.

Other information : Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear.
Colour : Colourless.
Odour : characteristic.
Odour threshold : No data available

pH : 3

Relative evaporation rate (butylacetate=1) : No data available Melting point : -114 °C -173 °F Freezing point : No data available : 79 °C 174 °F **Boiling point** : > 100 °C >212 °F Flash point Self ignition temperature No data available Decomposition temperature : No data available Flammability (solid, gas) No data available

Vapour pressure : 44.6 mm Hg @ 20  $^{\circ}$ C (68  $^{\circ}$ F)

Relative vapour density at 20 °C : 1.6
Relative density : 1

Solubility : Miscible with water. Log Pow : No data available : No data available Log Kow Viscosity, kinematic : No data available Viscosity, dynamic No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : 3.3 - 19 vol %

# 9.2. Other information

Minimum ignition energy : >

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

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#### Possibility of hazardous reactions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.4. **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

#### Incompatible materials

Acids. metals. Oxidizing agents. Reducing agents. Strong acids.

#### 10.6. **Hazardous decomposition products**

Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

Acute toxicity : Not classified

Citric acid (77-92-9)	
LD50 oral rat	3 g/kg
Ethanol (64-17-5)	
LD50 oral rat	7060 mg/kg
LC50 inhalation rat (ppm)	20000 ppm 10 H
Skin corrosion/irritation	: Not classified
	pH: 3
Serious eye damage/irritation	: Not classified
	pH: 3
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

Based on available data, the classification criteria are not met Specific target organ toxicity (single exposure)

: Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

Ecology - general : Not classified.

#### 12.2. Persistence and degradability

PH-3 Na Amino Acid Buffer	
Persistence and degradability	Readily biodegradable.

#### 12.3. **Bioaccumulative potential**

PH-3 Na Amino Acid Buffer	
Bioaccumulative potential	No information available.

#### 12.4. **Mobility in soil**

PH-3 Na Amino Acid Buffer	
Ecology - soil	No information available.

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#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste disposal recommendations : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with DOT

No dangerous good in sense of transport regulations

# **Additional information**

Other information : Not classified.

Special transport precautions : No special precautions required.

#### Transport by sea

No dangerous good in sense of transport regulations

#### Air transport

No dangerous good in sense of transport regulations

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

#### Citric acid (77-92-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 15.2. International regulations

#### **CANADA**

# PH-3 Na Amino Acid Buffer

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

#### 15.2.2. National regulations

# Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

# 15.3. US State regulations

# Ethanol (64-17-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

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### **SECTION 16: Other information**

Abbreviations and acronyms : ADR (Accord européen relatif au transport international des marchandises Dangereuses par

Route). CAS (Chemical Abstracts Service) number. IARC (International Agency for Research on Cancer). IATA (International Air Transport Association). IMDG (International Maritime Dangerous

Goods Code). RID (Règlement concernant le transport international ferroviaire de

marchandises).

Other information : None.

#### Full text of H-phrases: see section 16:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation

#### NCEC SDS US GHS (Hazcom 2012)

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.

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