

Safety Data Sheet

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

Date of issue: 04/05/2019 Version: 4

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

Product identifier

Product form : Mixture

Product name : Hexylammonium Acetate Buffer A, 0.1 M, Case (4x2.5L) (HM)

Product code : 562024-50, 553424

Other means of identification : 0.1 M n-Hexylammonium Acetate with 10% (vol) Acetonitrile,

> Mobile Phase for Nucleic Acid Analysis - Buffer HA A, Buffer A - HAA Buffer A for Nucleic Acid Analysis

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

Use of the substance/mixture : Buffer, HPLC Eluent

Details of the supplier of the safety data sheet

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

Emergency telephone number

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

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225 Eye Irrit. 2A H319

Label elements

GHS-US labeling

Signal word (GHS-US)

Hazard pictograms (GHS-US)



GHS07

: Danger

Hazard statements (GHS-US) H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

Precautionary statements (GHS-US) P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, ventilating, lighting equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye protection, face protection P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention P370+P378 - In case of fire: Use Water spray for extinction P403+P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container to licensed waste management site

Other hazards

Other hazards not contributing to the classification

: Repeated or prolonged contact may cause skin irritation. Inhalation of vapours may cause respiratory irritation.

04/05/2019 EN (English) Page 1

Safety Data Sheet

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

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
Acetonitrile	(CAS No) 75-05-8	10	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319
Hexylammonium Acetate	(CAS No) 23239-72-7	1 - 5	Not classified

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

: Wash with plenty of soap and water. Wash contaminated clothing before reuse. 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.

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 after skin contact

: Repeated and/or prolonged skin contact may cause irritation.

Symptoms/injuries after eye contact

: Causes eye irritation.

Symptoms/injuries after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

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 : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

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.

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.

04/05/2019 EN (English) 2/7

Safety Data Sheet

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

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

ventilation.

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

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Keep away from open flames, hot surfaces and sources of ignition. Wash hands and other

exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with skin, eyes and clothing. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

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

container and receiving equipment.

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

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

Incompatible products : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

A component of systems for genetic analysis of nucleic acid samples in a professional diagnostic or research laboratory.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acetonitrile (75-05-8)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	70 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	40 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : protective gloves.

Eye protection : Safety glasses with face shield.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Not required under normal 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

Colour : Colourless.

Odour : No data available

Odour threshold : No data available

pH : 7.1 - 7.7

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

04/05/2019 EN (English) 3/7

Safety Data Sheet

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

Boiling point : No data available : 6 °C 42.8 °F Flash point Self ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) : No data available Vapour pressure : No data available : No data available Relative vapour density at 20 °C Relative density : 0.98 @20 °C (68 °F) Solubility : Miscible with water. Log Pow : No data available Log Kow : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic Explosive properties : No data available : No data available Oxidising properties : 3 - 16 vol % Explosive limits

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

Possibility of hazardous reactions

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

Conditions to avoid

Extremely high or low temperatures. Ignition sources.

Incompatible materials

Acids. metals. Strong bases. Oxidizing agents. Reducing agents.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Ammonia.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity : Not classified : Not classified Skin corrosion/irritation pH: 7.1 - 7.7

Serious eye damage/irritation : Causes serious eye irritation.

> pH: 7.1 - 7.7 : Not classified

Respiratory or skin sensitisation 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 : Not classified

exposure) Based on available data, the classification criteria are not met

04/05/2019 4/7 EN (English)

Safety Data Sheet

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

Aspiration hazard : Not classified

Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

eymptoms

Symptoms/injuries after skin contact

symptoms

: Repeated and/or prolonged skin contact may cause irritation.

Based on available data, the classification criteria are not met

Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified.

Mobile Phase for Nucleic Acid Analysis - Buffer HA A

LC50 fish 1 g/l 96 h - Fathead minnow (Pimephales promelas)

12.2. Persistence and degradability

Mobile Phase for Nucleic Acid Analysis - Buffer HA A

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Mobile Phase for Nucleic Acid Analysis - Buffer HA A

Bioaccumulative potential No information available.

12.4. Mobility in soil

Mobile Phase for Nucleic Acid Analysis - Buffer HA A

Ecology - soil No information available.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should

be taken to an approved waste handling site for recycling or disposal. Dispose of

contents/container to ...

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

UN-No.(DOT) : 1648
DOT Proper Shipping Name : Acetonitrile

Department of Transportation (DOT) Hazard

Classes

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail : 5L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

04/05/2019 EN (English) 5/7

Safety Data Sheet

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

DOT Vessel Stowage Location

B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Additional information

Other information : Not classified.

Special transport precautions : No special precautions required.

Transport by sea

UN-No. (IMDG) : 1648

Proper Shipping Name (IMDG) : ACETONITRILE
Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

Air transport

UN-No.(IATA) : 1648

Proper Shipping Name (IATA) : ACETONITRILE

Class (IATA) : 3 - Flammable Liquids

Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Acetonitrile (75-05-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb

15.2. International regulations

CANADA

Mobile Phase for Nucleic Acid Analysis – Buffer HA A	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material

15.2.2. National regulations

No additional information available

15.3. US State regulations

Acetonitrile (75-05-8)

U.S. - Massachusetts - Right To Know List

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

U.S. - Pennsylvania - RTK (Right to Know) List

04/05/2019 EN (English) 6/7

Safety Data Sheet

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

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:

xt of n-prifases, see section to.	
Acute Tox. 4 (Dermal) Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H332	Harmful if inhaled

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.

04/05/2019 EN (English) 7/7