

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: 5

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

1.1. Product identifier

Product form : Mixture

Product name : Column Wash Solution D

Product code : 562023-50, 553423, 553423-L, 553423-L4

Other means of identification : 75% (vol.) Acetonitrile in water

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

Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation) H332 Eye Irrit. 2A H319

CLP Classification - Regulation (EC) No 1272/2008

Physical Hazards

- Flammable Liquids Category 2 (H225)

Health Hazards

Acure oral toxicity
 Acute dermal toxicity
 Acute inhalation toxicity – vapors
 Serious eye damage/eye irritation
 Category 4 (H332)
 Category 4 (H332)
 Category 2 (H319)

Environmental Hazards

- Based on available data, classification criteria are not met

2.2. Label elements

GHS-US labeling

Signal word (GHS-US)

Hazard pictograms (GHS-US)





GHS02

: 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

10/18/2022 EN (English) Page 1

Safety Data Sheet

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

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

Labelling according to (EC) No 1272/2008

The substance is classified and labelled according to the CLP

Hazard pictograms ((EC) No 1272/2008)





Signal word ((EC) No 1272/2008)

: Danger

: H225 - Highly flammable liquid and vapour Hazard statements ((EC) No 1272/2008)

H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

H319 - Causes serious eye irritation

Precautionary statements ((EC) No 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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 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.

(EC) No 1272/2008

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

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	75	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319
Water	(CAS No) 7732-18-2	25	

SECTION 4: First aid measures

Description of first aid measures

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

10/18/2022 EN (English) 2/8

Safety Data Sheet

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

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.

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.

10/18/2022 EN (English) 3/8

Safety Data Sheet

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

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.

No data available

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 : No data available Freezing point : No data available Boiling point Flash point : 6 °C 42.8 °F Self ignition temperature : No data available Decomposition temperature : No data available : No data available Flammability (solid, gas)

Relative vapour density at 20 °C : No data available Relative density 0.98 @20 °C (68 °F) Solubility : Miscible with water. : No data available Log Pow Log Kow No data available Viscosity, kinematic : No data available Viscosity, dynamic No data available Explosive properties : No data available : No data available Oxidising properties **Explosive limits** : 3 - 16 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapour pressure

Stable under normal conditions.

10/18/2022 EN (English) 4/8

Safety Data Sheet

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Extremely high or low temperatures. Ignition sources.

10.5. Incompatible materials

Serious eye damage/irritation

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

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

: Causes serious eye irritation.

pH: 7.1 - 7.7

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 : Not classified

exposure)

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/injuries after skin contact

symptoms

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified.

Column Wash Solution D	
LC50 fish	1 g/l 96 h - Fathead minnow (Pimephales promelas)

12.2. Persistence and degradability

Column Wash Solution D	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

Column Wash Solution D	
Bioaccumulative potential	No information available.

12.4. Mobility in soil

Column Wash Solution D	
Ecology - soil	No information available.

10/18/2022 EN (English) 5/8

Safety Data Sheet

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

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

14.1 UN-Number

ADR, IMDG, IATA: UN1993

14.2 UN proper shipping name

ADR: UN1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, TRIETHYLAMINE)

IMDG, IATA: FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, TRIETHYLAMINE)

14.3 Transport hazard class(es)



ADR:

Class: 3 (F1) Flammable Liquids

Label: 3



IMDG, IATA:

Class: 3 Flammable Liquids

Label: 3

14.4 Packing group

ADR, IMDG, IATA:

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Warning: Flammable Liquids

Hazard identification number: 33

EMS Number: F-E,S-E

Stowage Category: B

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

Transport/Additional Information:

ADR

Limited Quantites (LQ): 1L

Excepted Quantities (EQ): Code: E2

Maximum net quantity per inner packaging: 30mL Maximum neéquantity per outer packaging: 500mL

Transport Category: 2
Tunnel Restriction Code: D/E

IMDG

Limited Quantites (LQ): 1L
 Excepted Quantities (EQ): Code: E2

Maximum net quantity per inner packaging: 30mL Maximum neéquantity per outer packaging: 500mL

10/18/2022 EN (English) 6/8

Safety Data Sheet

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

UN "Model Regulation"

UN1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, TRIETHYLAMINE), 3, II

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 : 202 DOT Packaging Non Bulk (49 CFR 173.xxx) 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)

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a **DOT Vessel Stowage Location** 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. Safety, health, and environmental regulations/legislation specific for the substance or mixture

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

10/18/2022 7/8 EN (English)

Safety Data Sheet

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

CLP Classification - Regulation (EC) No 1272/2008

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients is listed. P5c FLAMMABLE LIQUIDS

Seveso category:

Qualifying quantity (tonnes) for the application of lower-tier requirements: 5.000 t Qualifying quantity (tonnes) for the application of upper-tier requirements: 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII (REACH): Conditions of restriction: 3

CANADA

Column Wash Solution D	
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. Chemical safety assassment

No additional information available

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

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:

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.

10/18/2022 EN (English) 8/8