

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: 3

CECTION 4. Identification of the ev	wheten eal with the accurate the accurate the accurate the second s
	ubstance/mixture and of the company/undertaking
1.1. Product identifier Product form	: Solvent
Product name	: Acetontrile, HPLC Grade
Product code	: 560011
Other means of identification	: 100% (vol) Acetonitrile
1.2. Relevant identified uses of the su	Ibstance or mixture and uses advised against
Use of the substance/mixture	: Solvent
1.3. Details of the supplier of the safe	ty data sheet
ADS Biotec, Inc. 7409 Irvington Road Omaha, NE 68122 - USA <u>support@adsbiotec.com</u>	
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	r mixture
GHS-US classification	
Flam. Liq. 2 H225 Eye Irrit. 2A H319	
2.2. Label elements	
GHS-US labeling	

Hazard pictograms (GHS-US)	
	GHS02 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapour H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	<ul> <li>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</li> </ul>
2.3. Other hazards	
Other hazards not contributing to the classification	: Repeated or prolonged contact may cause skin irritation. Inhalation of vapours may cause respiratory irritation.
2.4. Unknown acute toxicity (GHS-US)	
No data available	
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### **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	100	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319

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 effect	s, 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 sub	stance 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		
Drotoction during firstighting	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 meas	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.		

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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		
Method	ls 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	
Additio	nal hazards when processed	: Handle empty containers with care because residual vapours are flammable.

Auditional nazarus when processed	. Trancie empty containers with care because residual vapours are naminable.
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, includi	ng 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 general laboratory reagent used for HPLC 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 an	d chemical properties
Physical state	: Liquid
Colour	: Colourless.
Odour	: No data available
Odour threshold	: No data available
рН	: 7.1 - 7.7
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 6 °C 42.8 °F

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

#### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

### 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

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

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Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity Specific target organ toxicity (single expos	<ul> <li>Not classified</li> <li>Based on available data, the classification criteria are not met</li> <li>sure)</li> <li>Not classified</li> </ul>
Carcinogenicity	Based on available data, the classification criteria are not met Not classified
Respiratory or skin sensitisation Germ cell mutagenicity	<ul> <li>Not classified</li> <li>Not classified</li> </ul>
Skin corrosion/irritation Serious eye damage/irritation	<ul> <li>Not classified</li> <li>pH: 7.1 - 7.7</li> <li>Causes serious eye irritation.</li> <li>pH: 7.1 - 7.7</li> </ul>
Acute toxicity	: Not classified

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

#### **SECTION 12: Ecological information** 12.1. Toxicity : Not classified. Ecology - general Acetonitrile LC50 fish 1 g/l 96 h - Fathead minnow (Pimephales promelas) 12.2. Persistence and degradability Acetonitrile Persistence and degradability No information available. 12.3. **Bioaccumulative potential** Acetonitrile Bioaccumulative potential No information available. 12.4. **Mobility in soil** Acetonitrile Ecology - soil No information available. Other adverse effects 12.5. 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 (49 CFR 173.27)	: 5L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L	

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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 infor	mation
15.1. US Federal regulations	
Acetonitrile (75-05-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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

Acetonitrile	
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	

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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:

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.