Camlab Limited – Material Safety Data Sheet 1111562

1. Identification

Product Code **1111562**

Product Name **ACETONITRILE HPLC**

Molecular Formula **CH_3CN =41.05**

CAS Number **75-05-8**

Supplier: **CAMLAB LIMITED**

Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE

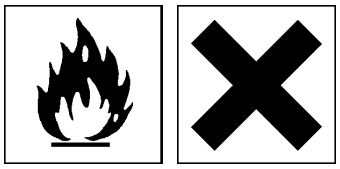
Phone **01954 233110**
Fax **01954 233101**

Emergency Telephone **08:00-17:00 01954 233110**
24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Acetonitrile	75-05-8	200-835-2	> 98.0%	F Xn : R11,R20/21/22,R36	WEL

3. Hazards Identification



Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes.

4. First Aid Measures

Eyes: Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.

Skin: Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION URGENTLY.

Inhalation: Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion: If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards: Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. Vapour-air mixtures are explosive. Vapours may flow along surfaces to distant ignition sources and flash back.

Extinguishing Media: Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool.

Unsuitable Media: Do not use water jet.

6. Accidental Release Measures

Personal Protection	Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Beware : vapour is heavier than air and will tend to accumulate at low spots. Do not allow general use of area until it is safe to do so.
Enviromental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.
Minor Spillage	Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions	All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.
Storage Conditions	Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

8.1 Workplace Exposure Limits

Component	CAS No	Workplace Exposure Limits				Maximum Exposure Limits			
		Long Term		Short Term		Long Term		Short Term	
		ppm	mg m–3	ppm	mg m–3	ppm	mg m–3	ppm	mg m–3
Acetonitrile	75-05-8	40.00	68.00	60.00	102.0	–	–	–	–

8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.
Hands	Use solvent resistant gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	Clear colourless liquid.
Odour	Ethereal.
pH	Not available
Boiling point	81.6 °C
Melting point	45.7- °C
Flash point	2.0 °C(Closed cup)
Upper Flammable Limit	17.0 %
Lower Flammable Limit	3.0 %
Auto Ignition	524.0 °C
Explosive properties	Moderate/severe in confined spaces.
Oxidising Properties	No.
Vapour Presure	97 mbar @ 20 C
Relative Density	0.7820
Water Solubility	Completely miscible in water.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.

10. Stability & Reactivity (continued)

Materials to Avoid	Strong oxidising agents. Fuming nitric,concentrated sulphuric and perchloric acids, iron perchlorate and N-fluoro compounds.
Hazardous Decomposition Products	Will evolve very toxic fumes of cyanide if involved in a fire or heated to decomposition.

11. Toxicological Information

Eyes	Contact with the liquid will cause moderate to severe irritation and may result in corneal injury. High concentrations of vapour may be irritating to the eyes.
Skin	Can be absorbed through the skin and may cause irritation and dermatitis. Skin absorbtion may be an important exposure route producing toxic effects similar to inhalation.
LD50 Skin	Rabbit 1250 mg/Kg
Ingest	Toxic if swallowed. Ingestion causes similar effects to vapour inhalation.
LD50 Ingest	Oral Rat 3800mg/Kg
Inhalation	Exposure to vapour concentrations above the occupational exposure limits may produce irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may effects the central nervous system resulting in Large amounts may cause sensitive individuals to cough. Usually there is a latent period of several hours before the onset of symptoms.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	Not teratogenic but high doses have caused maternal and foetal toxicity.

12. Ecological

Non-hazardous to aquatic species (TLm96>1000mg/l) BOD 5 day = 37% ThOD. Unlikely to bio-accumulate.

13. Disposal Considerations

Disposal Methods	Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion.
Contaminated Packaging	Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

14. Transport Information

Proper Shipping Name	Acetonitrile
UN Number	1648
UN Classification	3 Flammable liquid
Subsidiary Risk	None
Flash Point	2.0 °C(Closed cup)
Packing Group	II
Transport Category	2
Marine pollutant	No
ADR Hazard ID	33

15. Regulatory Information

Labelling Classification	Highly Flammable, Harmful.
Label Symbols	F

Xn

15. Regulatory Information (continued)

Risk & safety Phrases	Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes. Keep locked up and out of reach of children. Keep away from sources of ignition - No Smoking. Wear suitable protective clothing and gloves.
EEC Number	200-835-2

16. Other Information

Document Information	This document has been prepared in accordance with directive 88/379/EEC. The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. Revision Date: 8/06/05. Data reviewed and PDF file generated: 17/03/10.