Vickers Laboratories Ltd - Safety Data Sheet

2227

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
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Section 1. Identification

1.1 Product Identifier 2227

Product Name ACETONITRILE S HPLC (far uv grade)

CAS Number 75-05-8

REACH Registration No 01-2119471307-38-XXXX

Molecular Formula CH, CN =41.05

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 2 H225: Highly flammable liquid and vapour.

Acute toxicity, category 4 (oral)

H302: Harmful if swallowed.

Acute toxicity, category 4 (dermal)

H312: Harmful in contact with skin.

Acute toxicity, category 4 (inhalation) H332: Harmful if inhaled.

Serious eye damage/irritation, category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





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Highly flammable liquid and vapour. Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. Hazard Statements

Causes serious eye irritation.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective

clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do and continue rinsing.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Acetonitrile	75-05-8	200-835-2	01-2119471307-38-XXXX	>98%	Flam. Liq. 2,Acute Tox. 4 (O),Acute Tox. 4 (D),Acute Tox. 4 (I),Eye Irrit. 2

Section 4. First Aid

4.1 Description of first aid measures

Eves Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION URGENTLY.

Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. Skin

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.

If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen Ingestion

if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

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.

5.2 Special hazards arising from the substance or mixture

Hazards Vapour-air mixtures are explosive. Vapours may flow along surfaces to distant ignition sources and flash back.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

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.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

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.

7.2 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr	TWA)	Short Term 15min period)		
Acetonitrile	75-05-8	>98%	40.0 ppm	68.0 mg/m-3	60.0 ppm	102.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use solvent resistant gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Clear colourless liquid.

Odour Ethereal.
pH Not applicable
Boiling Point 81.6°C
Melting Point -45.7°C

Flash Point 2°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition

17%
3%
524°C

Explosive Properties Moderate/severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 72.7559mmHg @ 20°C

Relative Density 0.7820

Water Solubility Completely miscible in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Strong oxidising agents. Fuming nitric, concentrated sulphuric and perchloric acids, iron perchlorate and N-fluoro

compounds.

10.6 Hazardous Decomposition

Products

Will evolve very toxic fumes of cyanide if involved in a fire or heated to decomposition.

Section 11. Toxicological Information

11.1 Information on toxicological effects

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 1250mg/kg Rabbit

Ingestion Harmful if swallowed. Ingestion causes similar effects to vapour inhalation.

LD50 Oral 3800mg/kg Rat

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 result in headaches, dizziness, exhaustion mental instability, drowsiness and paralysis. Fatal cases of inhalation exposure have occurred. Usually there is a

latent period of several hours before the onset of symptoms.

LD50 Inhalation Not available
TCLo Not available

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.

Section 12. Ecological

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

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment 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.

Section 14. Transport Information

14.1 UN Number 1648

14.2 Proper Shipping Name Acetonitrile

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 33
Tunnel Restriction Code D/E

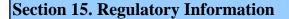
14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Flammable liquid, category 2; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (dermal); Acute toxicity,

category 4 (inhalation); Serious eye damage/irritation, category 2

Signal word Danger

Hazard Pictograms





Hazard Statements H225, H332, H312, H302, H319

Highly flammable liquid and vapour. Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed.

AMMABLE

Causes serious eye irritation.

Hazard Statements (Packs

of 100ml/g or less)

H225, H332, H312, H302, H319

Highly flammable liquid and vapour. Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed.

Causes serious eye irritation.

Precautionary Statements P210, P280, P305+P351+P338

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do and continue ringing

contact lenses if present and easy to do and continue rinsing.

Precautionary Statements (Packs of 100ml/g or less)

P210, P280

 $Keep\ away\ from\ heat\ /\ sparks/open\ flames/hot\ surfaces\ -\ No\ smoking.\ Wear\ protective\ gloves\ /\ prot$

clothing / eye protection / face protection.

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15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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