



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Acetonitrile

CAS No. 75-05-8

EC No. 200-835-2

REACH Registration No. 01-2119471307-38

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified Use(s) PC21 Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification Rathburn Chemicals Ltd
Address of Manufacturer 6 Caberston Road
Walkerburn
Peeblesshire
Scotland
Postal code EH43 6AU
Telephone: 00 (44) (0) 1 896 870 651
Fax 00 (44) (0) 1 896 870 633
E-mail sales@rathburn.co.uk

Office hours

Supplier

Company Identification Rathburn Chemicals Ltd
Address of Supplier 6 Caberston Road
Walkerburn
Peeblesshire
Scotland
Postal code EH43 6AU
Telephone: 00 (44) (0) 1 896 870 651
Fax 00 (44) (0) 1 896 870 633
E-mail sales@rathburn.co.uk

Office hours

1.4 Emergency telephone number

Emergency Phone No. 00 (44) (0) 1 896 870 651

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Acute Tox. 4 : Harmful if swallowed.
Acute Tox. 4 : Harmful if inhaled.
Acute Tox. 4 : Harmful in contact with skin.
Eye Irrit. 2 : Causes serious eye irritation.
Flam. Liq. 2 : Highly flammable liquid and vapour.

2.2 Label elements

Product Name According to Regulation (EC) No. 1272/2008 (CLP)
Acetonitrile



Hazard Pictogram(s)



GHS02



GHS07

Signal Word(s)

Danger

Hazard Statement(s)

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.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 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.

2.3 Other hazards

Not known.

2.4 Additional Information

For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. REACH Registration No.	%W/W Hazard	Hazard Statement(s)	Hazard Pictogram(s)
Acetonitrile	75-05-8	200-835-2 01-2119471307-38	100	Flam. Liq. 2 Acute Tox. 4 H302 Acute Tox. 4 H312 Eye Irrit. 2 Acute Tox. 4 H319 Acute Tox. 4 H332	H225 GHS02 GHS07

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin Contact	IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. And wash it before reuse.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	IF SWALLOWED: Call a POISON CENTER/doctor if you feel



- unwell. Rinse mouth.
- 4.2 Most important symptoms and effects, both acute and delayed
May cause irritation.
- 4.3 Indication of any immediate medical attention and special treatment needed
Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see Medical Advice on this label). Treat symptomatically.

5. SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media
Suitable Extinguishing media As appropriate for surrounding fire.
Unsuitable extinguishing media Water jet spray
- 5.2 Special hazards arising from the substance or mixture
May decompose in a fire, giving off toxic and irritant vapours.
- 5.3 Advice for fire-fighters
Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection.
- 6.2 Environmental precautions
Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
- 6.3 Methods and material for containment and cleaning up
Sweep up spilled substance and remove to safe place. Use vacuum equipment for collecting spilt materials, where practicable. Containers must not be punctured or destroyed by burning, even when empty.
- 6.4 Reference to other sections
See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
- 7.2 Conditions for safe storage, including any incompatibilities
Store in a well-ventilated place. Keep cool.
- Storage temperature
Storage life Stable under normal conditions.
Incompatible materials None known.
- 7.3 Specific end use(s)



PC21 Laboratory chemicals

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Acetonitrile	75-05-8	40	68	60	102	
Acetonitrile	75-05-8	40	70			IOELV, Skin
Remark	Footnote					
IOELV	IOELV: Indicative Occupational Exposure Limit Value					
Skin	The possibility of significant uptake through the skin.					

8.2 Exposure controls

Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

Personal protection equipment



Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Thermal hazards

None known.

Environmental Exposure Controls Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Liquid.
Colour Colourless liquid

Odour specific

Melting point/freezing point -46C
Initial boiling point and boiling range 81C
Flash Point 6 °C



Density (g/ml)	0.781 g/ml
Solubility(ies)	Solubility (Water) : Completely soluble in water.
Auto-ignition temperature	525C.

9.2 Other information Explosion limits – Lower 3 vol%, Upper 17 vol%

10. SECTION 10: STABILITY AND REACTIVITY

Reactivity	None anticipated.
Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose.
Conditions to avoid	Avoid friction, sparks, or other means of ignition.
Incompatible materials	Not known.
Hazardous decomposition product(s)	None known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Calculation method : Harmful if swallowed. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 500.00000
Acute toxicity - Skin Contact	Calculation method : Harmful in contact with skin. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 1100.00000
Acute toxicity - Inhalation	Calculation method : Harmful if inhaled. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 11.00000
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Calculation method : Causes serious eye irritation.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

11.2 Other information

Not known.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.



Toxicity - Terrestrial Compartment	Not classified.
12.2. Persistence and Degradation	Not known.
12.3. Bioaccumulative potential	Not known.
12.4. Mobility in soil	Not known.
12.5. Results of PBT and vPvB assessment	Not known.
12.6 Other adverse effects	Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number	
UN No.	1648
14.2 UN proper shipping name	
UN proper shipping name	ACETONITRILE
14.3 Transport hazard class(es)	
ADR/RID Class	3
IMDG Class	3
IMDG EMS	Not available
ICAO/IATA	
Excepted Quantities	E2
Passenger and Cargo Aircraft	Y341
Limited Quantities Packing	
Instructions	
Passenger and Cargo Aircraft	1L
Limited Quantities Max net Qty	
Passenger and Cargo Aircraft	353
Max net Qty	
Passenger and Cargo Aircraft	5L
Max net Qty	
Cargo Aircraft Packing	364
Instructions	
Cargo Aircraft Max net Qty	60L
Special Provisions	Not applicable
Emergency Response	3L
Guidebook (ERG) Code	
ADR Classification Code	F1
ADR HIN	33
ADR Transport Category	2
Tunnel Restriction Code	D/E
Emergency Action Code	•2YE
Advice on Additional Personal	Not applicable



Protection (APP)

14.4 Packing group

Packing group

II

Labels

3



Special Provisions

Not applicable

Limited Quantities

1 L

Excepted Quantities

E2

Mixed Packing Instructions for Packages

P001 IBC02 R001

Special Packing Provisions for Packages

Not applicable

Mixed Packing Instructions for Packages

MP19

14.5 Environmental hazards

Environmental hazards

Not known.

14.6 Special precautions for user

Special precautions for user

Not known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Packing Instructions for Portable Tanks

T7

Special Provisions for Portable Tanks

TP2

Tank Code for Tanks

LGBF

Special Provisions for Tanks

Not applicable

Vehicle for Tank Carriage

FL

Special Provisions for Carriage - Packages

Not applicable

Special Provisions for Carriage - Bulk

Not applicable

Special Provisions for Carriage - Loading, Unloading and Handling

Not applicable

Special Provisions for Carriage - Operation

S2 S20

15. SECTION 15: REGULATORY INFORMATION

15.1 European Regulations

Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for

Authorisation

REACH: ANNEX XIV list of substances subject to authorisation

All chemicals are not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

All chemicals are not listed

Community Rolling Action Plan

Not known.



(CoRAP)

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants

Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

15.2 National regulations

Other Not known.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:
Hazard Pictogram(s)



GHS02



GHS07

Signal Word(s)

Danger

Hazard Statement(s)

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.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of water.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.



P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER/doctor if you feel unwell.
P321: Specific treatment (see Medical Advice on this label).
P330: Rinse mouth.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse. And wash it before reuse.
P370+P378: In case of fire: Use water to extinguish.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents in accordance with local, state or national legislation.

Disclaimers

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