WF Education Group - Safety Data Sheet

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

Revision: 3.0 (Replaces revision 2.3 of 16 April 2021)

Revision date: Date printed:

06 May 2021 07 June 2021

AC1038

Section 1. Identification

1.1 Product Identifier		AC1038		
	Product Name	ACETIC ANHYDRIDE pure 500ml.		
	CAS Number REACH Registration No	108-24-7 01-2119486470-36-XXXX		
	Molecular Formula	(CH ₃ CO) ₂ O =102.09		

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

Phone

Email

1.4

Website

WF Education Group



Phoenix House Battlefield Enterprise Park Stafford Drive Shrewsbury Shropshire SY1 3FE UNITED KINGDOM

(Have this document to hand)

+44(0)1743 812200 sales@wf-education.com www.timstar.co.uk

Emergency Telephone (08:30-17:00) +44(0)1743 812200 (24hr)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 3 Skin corrosion/irritation, category 1B Acute toxicity, category 4 (oral) Acute toxicity, category 4 (inhalation) H226: Flammable liquid and vapour. H314: Causes severe skin burns and eye damage. H302: Harmful if swallowed. H332: Harmful if inhaled.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Hazard Pictograms

Danger



112

Flammable liquid and vapour. Causes severe skin burns and eye damage. Harmful if inhaled. Harmful if swallowed.

Precautionary Statements

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapours / spray. Do not eat, drink or smoke when using this product. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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)
Acetic anhydride	108-24-7	203-564-8	01-2119486470-36-XXXX	>98%	Flam. Liq. 3,Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (I)

Section 4. First Aid

4.1 Description of 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. If discomfort persists OBTAIN MEDICAL ATTENTION.
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.
Personal protection for first aiders	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.

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

Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

Personal Protection

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. Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash to drain 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

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.

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 (8	Bhr TWA)	Short Term 1	5min period)
Acetic anhydride	108-24-7	>98%	0.5 ppm	2.0 mg/m-3	2.5 ppm	10.0 mg/m-3

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

8.2 Exposure controls

Respiratory Protection	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.
Hand Protection	Use PVC gauntlets.
Eye Protection	Use chemical full face shield.
Skin Protection	Wear PVC oversuit.
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	Sharp vinegary odour and burning taste.
pH	Not applicable
Boiling Point	139.6°C
Melting Point	-73.1°C
Flash Point	54°C (Closed cup)
Upper Flammable Limit	10.1%
Lower Flammable Limit	2.7%
Auto Ignition	330°C
Explosive Properties	Moderate/severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	3.9753mmHg @ 20°C

Ref: AC1038

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	Water. Alkalis.
10.6	Hazardous Decomposition Products	None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	The vapour is irritating to the eyes. The liquid and solutions will cause severe burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	The liquid and solutions will cause severe burns. Repeated exposure may cause dermatitis.
LD50 Skin	4000mg/kg Rabbit
Ingestion	Causes severe corrosion of the mouth, throat and gastro-intestinal tract.
LD50 Oral	1780mg/kg Rat
Inhalation	Exposure to vapour concentrations above the occupational exposure limits will produce severe irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may seriously damage the membranes lining the nose, throat and upper respiratory tract.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.
Other Information	The irritant effect provides warning that control of exposure is needed.

Section 12. Ecological

12.1	Toxicity	Readily biodegradable in both fresh and salt water. Bio-oxidation as a % of Theoretical O2 Demand	
	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 **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.

Section 14. Transport Information 14.1 UN Number 1715 14.2 Proper Shipping Name Acetic anhydride 14.3 Transport classes 8 UN classification CORROSIVE Subsidiary hazard(s) 3 LIQUID Transport category 2 ADR Hazard ID 83 **Tunnel Restriction Code** D/E 14.4 Packing Group Π 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. Section 15. Regulatory Information

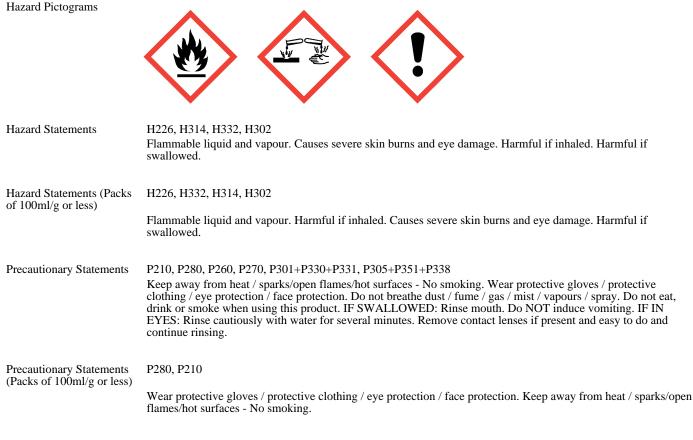
15.1 Safety, health and environment regulations specific for subtance/mixture.

Danger

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

Classification Flammable liquid, category 3; Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (inhalation)

Signal word



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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