Scientific Laboratory Supplies - Safety Data Sheet

CHE1026

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

Revision: 3.0 Revision date: 06 May 2021 Date printed: 16 September 2024 (Replaces revision 2.3 of 16 April 2021)

Section 1. Identification

Product Identifier CHE1026

> Product Name ACETIC ANHYDRIDE A.R. 500ml.

CAS Number 108-24-7

REACH Registration No 01-2119486470-36-XXXX

(CH, CO), O =102.09 Molecular Formula

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** Scientific Laboratory Supplies



Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

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> (24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 3 H226: Flammable liquid and vapour.

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage. Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

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

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: CHE1026



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

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 Wear protective gloves / eye protection.

aiders

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

Personal Protection 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.

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. 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

I	Component	CAS No	Concentration	Workplace Exposure Limits				
				Long Term (8hr TWA)		Short Term 15min period)		
Ì	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

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
Lower Flammable Limit
Auto Ignition

10.1%
2.7%
330°C

Explosive Properties Moderate/severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 3.9753mmHg @ 20°C

Relative Density 1.0810

Water Solubility Completely soluble in water but reacts vigorously with much evolution of heat and fumes.

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 No data available.

reactions

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

10.5 Incompatable Materials Water. Alkalis

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

Products

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 Subsidiary hazard(s) 3 Transport category 2 ADR Hazard ID 83 **Tunnel Restriction Code** D/E

14.4 Packing Group

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.

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 Danger

Hazard Pictograms







CORROSIVE

Hazard Statements H226, H314, H332, H302

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

swallowed

Hazard Statements (Packs

of 100ml/g or less)

H226, H332, H314, H302

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

swallowed.

Precautionary Statements P210, P280, P260, P270, P301+P330+P331, P305+P351+P338

> 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.

Precautionary Statements (Packs of 100ml/g or less) P280, P210

Wear protective gloves / protective clothing / eye protection / face protection. Keep away from heat / sparks/open

flames/hot surfaces - No smoking.

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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