Scientific Laboratory Supplies - Safety Data Sheet

CHE1028

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

Revision: 2.1 (Replaces revision 1.1 of 04 March 2020)

Revision date: Date printed: 04 March 2020 16 June 2020

Section 1. Identification

1.1 Product Identifier CHE1028

Product Name ACETIC ANHYDRIDE pure 2.5L.

CAS Number 108-24-7

REACH Registration No 01-2119486470-36-XXXX

Molecular Formula (CH₃ 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 Scientific Laboratory Supplies



Wilford Industrial Estate

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Wilford Nottingham NG11 7EP

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 (Flam. Liq. 3). Skin corrosion/irritation, category 1B (Skin Corr. 1B). Acute toxicity, category 4 (inhalation) (Acute Tox. 4 (I)).

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







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

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 (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.

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.

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

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.

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

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

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

Section 11. Toxicological Information

11.1 Information on toxicological effects

The vapour is irritating to the eyes. The liquid and solutions will cause severe burns. Damage can range from Eyes

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

Causes severe corrosion of the mouth, throat and gastro-intestinal tract. Ingestion

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 Not available LC50 Crustacea LC50 Fish Not available 12.2 Persistence and No data available.

degradability

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

Results of PBT & vPvB Assessment not required.

Section 13. Disposal Considerations

assessment

None known at present.

12.6 Other adverse effects

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

UN classification 8
Subsidiary hazard(s) 3
Transport category 2
ADR Hazard ID 83
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.

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 (inhalation)

Signal word Danger

Hazard Pictograms







CORROSIVE

Hazard Statements H226, H332, H302, H314

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

damage.

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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