# Scientific Laboratory Supplies - Safety Data Sheet

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

Revision: 1.1

Revision date: Date printed:

### 16 April 2021 17 August 2022

**CHE1000** 

# Section 1. Identification

1.1	Product Identifier	CHE1000
	Product Name	ACETALDEHYDE pure 500ml.
	CAS Number REACH Registration No	75-07-0 01-2119918285-36-XXXX
	Molecular Formula	CH <sub>3</sub> CHO =44.05

### 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

Scientific Laboratory Supplies



Wilford Industrial Estate Ruddington Lane Wilford Nottingham NG11 7EP UNITED KINGDOM

Emorgoney Tolonhono	(08.00, 17.00)	0115 082111
Email	sales@scientific-la	bs.com
Fax	0115 9825275	
Phone	0115 9821111	

1.4	<b>Emergency Telephone</b>	(08:00-17:00)	0115 9821111
		(24hr)	112
		(Have this docum	ent to hand)

# Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Flammable liquid, category 1 Serious eye damage/irritation, category 2 Carcinogenicity, category 2 Spec target organ tox - single, category 3 H224: Extremely flammable liquid and vapour.H319: Causes serious eye irritation.H351: Suspected of causing cancer.H335: May cause respiratory irritation.

### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

### Signal word

Danger

Hazard Pictograms



Extremely flammable liquid and vapour. Suspected of causing cancer. Causes serious eye irritation. May cause respiratory irritation.

Precautionary Statements

Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

## Section 3. Composition

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Acetaldehyde	75-07-0	200-836-8	01-2119918285-36-XXXX	>99%	Flam. Liq. 1, Eye Irrit. 2, Carc. 2, STOT SE 3 (I)

## Section 4. First Aid

#### 4.1 Description of first aid measures

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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.
TT '- 11 N/ 1'	

Unsuitable Media Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Vapour-air mixtures are explosive.

### 5.3 Advice for firefighters

Hazards

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

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term (8hr	TWA)	Short Term 15min	period)
Acetaldehyde	75-07-0	>99%	20.0 ppm	50.0 mg/m-3	37.0 ppm	92.0 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 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	Pungent fruity odour.
pH	Not applicable
Boiling Point	20.8°C
Melting Point	-123.5°C
Flash Point	-27°C (Closed cup)
Upper Flammable Limit	60%
Lower Flammable Limit	4%
Auto Ignition	185°C
Explosive Properties	Severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	740mmHg @ 20°C
Relative Density	0.7827
Water Solubility	Completely miscible in water.

Ref: CHE1000

### 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	Acids. Alkalis. Reacts violently with many oxygenated organic compounds, eg. alcohols, ketones, phenols, anhydrides etc.
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 will cause severe irritation. The liquid is be extremely irritating to eyes and can cause chemical eye burns.
Skin	The liquid is irritating to the skin. Repeated exposure may cause dermatitis. May cause skin sensitisation.
LD50 Skin	Not available
Ingestion	Ingestion will cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea.
LD50 Oral	1930mg/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	Carcinogen - category 2. Has been found to be carcinogenic to rats and mice. It is suspected as a long term carcinogen in man but evidence is inconclusive.
Mutagenicity	A mutagen.
Reproductive Effects	Some evidence for foetoxicity and tetragenecity has been observed in experimental animals
Other Information	The irritant effect provides warning that control of exposure is needed.

# Section 12. Ecological

12.1	Toxicity	No specific environmental hazard.
	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

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

g 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	1089
14.2	Proper Shipping Name	Acetaldehyde
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID	3 None 1 33 3
14.4	Tunnel Restriction Code Packing Group	D/E I
14.5	Environment hazards	See section 12.
14.6	Special precautions for user	No special precautions required.
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 1; Serious eye damage/irritation, category 2; Carcinogenicity, category 2; Spec target organ tox - single, category 3
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H224, H351, H319, H335 Extremely flammable liquid and vapour. Suspected of causing cancer. Causes serious eye irritation. May cause respiratory irritation.
Precautionary Statements	P233, P280, P261, P301+P310, P331 Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

#### 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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