# WF Education Group - Safety Data Sheet

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

Revision: 1.1 Revision date: 16 April 2021 07 June 2021 Date printed:

**Section 1. Identification** 

**Product Identifier** AC1000

> Product Name ACETALDEHYDE pure 500ml.

CAS Number

**REACH Registration No** 01-2119918285-36-XXXX

CH CHO =44.05 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** WF Education Group

Phoenix House

Battlefield Enterprise Park

Stafford Drive Shrewsbury Shropshire SY1 3FE

UNITED KINGDOM

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(24hr)

(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 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 Hazard Statements

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

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.

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If Inhalation

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.

## 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

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.

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
Lower Flammable Limit
Auto Ignition

60%

4%

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.

#### 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 Acids. Alkalis. Reacts violently with many oxygenated organic

compounds, eg. alcohols, ketones, phenols, anhydrides etc.

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 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 No data available.

degradability

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

**12.5** Results of PBT & vPvB Assessment not required.

assessment

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**12.6** Other adverse effects None known at present.

# Section 13. Disposal Considerations

### 13.1 Waste treatment 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** 1089

**14.2 Proper Shipping Name** Acetaldehyde

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) None
Transport category 1
ADR Hazard ID 33
Tunnel Restriction Code D/E

14.4 Packing Group I

**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.



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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