

# SAFETY DATA SHEET

**ACETIC ACID, 90%**

Infosafe No.: 1HH1S  
ISSUED Date : 27/08/2021  
ISSUED by: CULBEAG HOLDINGS Pty Ltd

## 1. IDENTIFICATION

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**GHS Product Identifier**

ACETIC ACID, 90%

**Product Code**

A90

**Company Name**

CULBEAG HOLDINGS Pty Ltd (ABN 95 007 197 079)

**Address**

19 Allied Drive Tullamarine  
VIC AUSTRALIA

**Telephone/Fax Number**

Tel: 03 9335 4400  
Fax: 03 9335 1750

**Emergency phone number**

03 9335 4400

**Emergency Contact Name**

Mr Ian Cameron

**E-mail Address**

sales@culbeag.com.au

**Recommended use of the chemical and restrictions on use**

Textile industry, food processing.

## 2. HAZARD IDENTIFICATION

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**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

Eye Damage/Irritation: Category 1

Flammable Liquids: Category 3

Skin Corrosion/Irritation: Category 1A

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

**Pictogram (s)**

Flame,Corrosion



#### Precautionary statement – Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statement – Response

- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P363 Wash contaminated clothing before reuse.  
P370+P378 In case of fire: Use of alcohol resistant foam is the preferred firefighting medium but if not available, fine water spray or water fog can be used to extinguish for extinction.

#### Precautionary statement – Storage

- P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

#### Precautionary statement – Disposal

- P501 Dispose of contents/container to an approved waste disposal site..

#### Supplemental Information

In Australia the "POISON CENTER" is the Poisons Information Centre - Telephone 131126.  
"Extinction" means putting out the fire.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Name	CAS	Proportion
Acetic Acid	64-19-7	90 %
Water	7732-18-5	10 %

### 4. FIRST-AID MEASURES

#### Inhalation

Move affected person(s) to fresh air. If breathing has stopped commence artificial respiration. If patient is conscious and is experiencing difficulty with breathing, place patient in a sitting position and observe behaviour. Oxygen may be given by qualified personnel. Promptly seek medical assistance or transport to a hospital for medical attention.

#### Ingestion

If swallowed do NOT induce vomiting. Never give fluids or induce vomiting if the patient is unconscious or having convulsions. If patient is conscious give a glass of water to rinse mouth; do NOT swallow. Then give one or two glasses of water to drink. Seek medical assistance immediately from a doctor or transport to an emergency hospital.

### **Skin**

If skin or hair contact occurs, flush skin with flowing water while removing contaminated clothing and footwear. Continue washing for at least 15 minutes. Obtain medical assistance promptly or transport to an emergency hospital. Wash clothing thoroughly before re-use. Discard contaminated footwear.

### **Eye contact**

If in eye(s), hold eyelid(s) open and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Promptly consult a doctor or take to an emergency hospital. Continue to flush eyes with water during transport to a doctor or a hospital.

### **First Aid Facilities**

Safety shower and eye washing facility, either an eye bath or an eye wash unit. Drinking quality water source.

### **Advice to Doctor**

Product is corrosive. Treat burns as a thermal burn. The induction of vomiting, if deemed necessary by the attending doctor, should be controlled.

Treat Symptomatically.

### **Indication of immediate medical attention and special treatment needed if necessary**

If an accident occurs or if you feel unwell obtain medical advice. For advice, contact the Poisons Information Centre (Telephone 13 1126) or a doctor at once.

## **5. FIRE-FIGHTING MEASURES**

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### **Suitable Extinguishing Media**

Use water spray, foam or dry chemical powder for small fire. Water spray or foam, preferably an alcohol resistant foam, for larger fires.

Do not spread fire by use of water jet or stream.

### **Hazards from Combustion Products**

Complete combustion will form carbon dioxide and water.

### **Specific Methods**

Wear standard fire fighting clothing and equipment. Self-contained breathing apparatus and suitable protective clothing will be required if containers have ruptured or there is a potential to rupture. Keep intact containers cool with a water spray. Move intact containers out of the fire path if this operation can be performed safely.

### **Specific Hazards Arising From The Chemical**

Product is flammable and will ignite readily. Vapour is heavier than air and may travel over floor or ground surfaces to an ignition point and flash back to the vapour source. Vapour of product and air form flammable mixtures which can explode if ignited. Containers of acid may rupture when exposed to extreme heat of a fire. Acid reacts with most metals and generates highly flammable hydrogen which forms an explosive mixture with air.

### **Hazchem Code**

2P

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Emergency Procedures**

Clear unprotected personnel from area of spill or leak. Remove all sources of ignition.

### **Spills & Disposal**

Remove all sources of ignition. NO smoking. Wear appropriate protective clothing. Ventilate area of the leak or spill. Contain spilled acid with soil, sand or vermiculite. Do NOT use combustible materials such as sawdust. Do not use equipment or tools that may spark when struck. Prevent entry into sewers, drains or water courses. Carefully neutralise acid with soda ash or slaked lime. Collect neutralised waste for disposal. Wash residual materials from hard surfaces with water.

## 7. HANDLING AND STORAGE

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### Precautions for Safe Handling

Ground and bond containers when transferring product. Avoid inhalation of fumes, vapour or spray. Use only with adequate ventilation. Keep away from heat, sparks and flames. When diluting this product add the acid slowly in small quantities to water or the diluting agent, stirring carefully and thoroughly before adding more acid. Do NOT use warm or hot water.

Triple wash empty container thoroughly with water before recycling or disposal of the container.

### Conditions for safe storage, including any incompatibilities

Product is classified as a Dangerous Good Class 8 - Corrosive with a subsidiary risk, Class 3 - Flammable liquid. Keep away from heat, sparks or flames. Store in accord with regulations for storage of a corrosive as well as a flammable liquid.

Store in a dry, well-ventilated location with acid resistant floors and away from oxidising agents.

Store at temperature above 17°C to allow the product to be used as a liquid. Protect from freezing.

Store away from alkaline substances, chlorinating agents and cyanide compounds.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational exposure limit values

Workplace Exposure Standard (WES)\* declared by SWA\* for the workplace environment for;

Acetic acid: 10 ppm,(25 mg per cubic metre) TWA, 15 ppm (37mg per cubic metre) STEL; where

TWA - means the Time Weighted Average concentration of a particular substance determined over a normal 8-hour working period for a 5-day working week.

STEL - means Short Term Exposure Limit, the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal 8-hour working day.

### Appropriate Engineering Controls

Use a corrosion-resistant local exhaust ventilation system to keep the airborne concentration of acetic acid vapour in the workplace below the WES. Facilities storing or using this product should be equipped with a safety shower and an eyewash facility within easy reach of workplace use.

### Respiratory Protection

Use corrosion-resistant local exhaust ventilation to maintain the airborne concentration of acetic acid below the WES. In an emergency situation select\* and wear an approved supplied air breathing apparatus\*. An approved air-purifying respirator\*, fitted with an organic vapour cartridge, may be used for a very short period of high atmospheric concentrations of acetic acid.

### Eye Protection

Wear approved chemical goggles selected\* and used\* in accord with the relevant Australian Standard. An approved face shield may be required for some operational procedures, e.g. where splashes may be generated. Ensure that an eye wash facility is readily accessible in the work area.

### Body Protection

Wear approved long-sleeved body-covering overalls and footwear. Refer to Australian Standard for general requirements of occupational protective clothing\* resistant to the product. Use gloves, boots and aprons suitable for the proposed operations. Rubber, PVC or neoprene are suggested protective materials for this equipment. Remove contaminated clothing promptly. Wash contaminated clothing before re-use. Discard contaminated footwear. Safety shower should be readily accessible in the workplace.

### Hygiene Measures

It is a good work practice to wash hands, arms, and face before eating, drinking, smoking or using toilet facilities during working periods and at the end of each work period.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Appearance	Colourless liquid with a pungent odour -- vinegary odour.	Melting Point	May solidify at less than 17°C.
Boiling Point	117 - 118°C	Solubility in Water	Soluble in all proportions.
Solubility in Organic Solvents	Miscible with alcohol, glycerine, and ether.	Specific Gravity	1.05 - 1.06 @ 20°C
pH	<0.1	Vapour Pressure	11.9 mm Hg @ 20°C
Vapour Density (Air=1)	2.1 (Air = 1)	Evaporation Rate	0.97
Flash Point	43°C (open cup method)	Flammability	Acetic acid is a flammable liquid. Mixture of acetic acid vapour and air are flammable and can explode if an ignition source present.
Flammable Limits - Lower	4% by vol in air	Flammable Limits - Upper	16% by vol in air

### Other Information

Auto-ignition temperature : 410°C

## 10. STABILITY AND REACTIVITY

### Chemical Stability

Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability. Generates heat and releases irritating vapours when mixed with water.

### Conditions to Avoid

Ignition sources, excessive heat, freezing temperatures, confined spaces. Use great caution when mixing with water due to evolution of heat that causes explosive spattering. Always add acid to water slowly and with gentle stirring.

### Incompatible materials

Incompatible with most metals except aluminium, chromic acid, nitric acid, ethylene glycol, perchloric acid, oxidisers, strong alkalis, carbonates, oxides and phosphates.

### Hazardous Decomposition Products

Carbon dioxide and carbon monoxide form when product heated to decomposition or burning

## 11. TOXICOLOGICAL INFORMATION

### Toxicology Information

Acute Oral LD50 (rat): 3310 mg/kg

Acute dermal LD50 (rabbit): 1060 mg/kg

Acute Inhalation LC50 (rat)(4 hour): 11.4 mg/L.

### Ingestion

Very corrosive to tissue. If swallowed will cause pain, burns to mouth, throat and digestive system. Swallowing of a small amount incidental to normal handling and use will cause injury.

### Inhalation

Exposure to relatively low concentrations (50 ppm or higher) of acetic acid vapour is intolerable to most people. Causes intense lacrymation (tears), and irritation of nose, throat and chronic pulmonary effects. Some persons may experience eye and nasal irritation at 25 ppm and higher.

**Skin**

CORROSIVE. In contact with the skin will cause severe burns. A very brief single contact will cause severe irritation. May be harmful if absorbed through the skin. Classified as corrosive according to the criteria of GHS\*.

**Eye**

CORROSIVE. If in eyes will cause severe injury to the eyes and will cause permanent damage, perhaps even blindness. Vapour of acetic acid will irritate the eye(s). Classified as corrosive according to the criteria of GHS\*.

**Chronic Effects**

Excessive exposure to the vapour of concentrated acetic acid will cause staining of the hands, conjunctivitis, bronchitis and inflammation of the pharynx, erosion of exposed teeth (incisors and canine). Excessive incidental skin contact with skin may cause hyperkeratosis (hardening of the outer skin).

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## 12. ECOLOGICAL INFORMATION

**Ecological information**

Harmful to aquatic organisms.

**Persistence and degradability**

Readily biodegradable.

**Environmental Protection**

Keep the product out of sewers, drains and water courses. Considered to be harmful to aquatic organisms. Will cause harm to aquatic organisms in the vicinity of the point of entry. Effects will depend on amount, dilution and water flow.

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## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal**

Dispose of wastes in an approved waste disposal system in accordance with State, Territorial and Commonwealth waste disposal regulations.

**Container Disposal**

Triple rinse empty container with water before disposal. Dispose of rinse water responsibly in accord with regulations.

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## 14. TRANSPORT INFORMATION

**Transport Information**

Product is a DANGEROUS GOOD; Class 8 - CORROSIVE with a sub-risk of FLAMMABLE for transport by road, rail, sea or air. Road and rail transport in Australia should be in accordance with the Australian Dangerous Goods Code.

**U.N. Number**

2789

**UN proper shipping name**

ACETIC ACID SOLUTION

**Transport hazard class(es)**

8

**Sub.Risk**

3

**Packing Group**

II

**Hazchem Code**

2P

**IERG Number**

19

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## 15. REGULATORY INFORMATION

**Regulatory information**

Product is classified as a dangerous good\* (see above) and a HAZARDOUS CHEMICAL\* as follows:-

- Flammable liquid - Category 4;
- Corrosive to metals - Category 1;
- Skin Corrosion - Sub-Category 1B;
- Eye Damage - Category 1.

Hazard statements are:-

- Flammable liquid and vapour;
- Causes severe burns and eye damage.

Precautionary statements for Prevention, Response, Storage and Disposal are listed in Section 2 above.

Product is classed as Schedule 5 Poison.

### **Packaging & Labelling**

Labelling (marking) in accordance with the ADG code with a Class 8 and sub-risk class label - Class 3, plus UN Number and Proper Shipping Name.

Labelling in accordance with hazardous chemicals regulations\* requires the following statements;

Precautionary statements for Prevention, Response, Storage and Disposal. These statements are listed in Section 2 of this document.

### **Australia (AICS)**

The principal ingredient is included in the Australian Inventory of Chemical Substances\*.

## **16. OTHER INFORMATION**

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### **Date of preparation or last revision of SDS**

Revision of SDS and re-issued, 27 August 2021. Revised First Aid for Ingestion, Skin and Eye by identifying an "emergency hospital for medical attention. Added First Aid washing period for Skin contact. Added an Emergency Procedure subsection to Section 6 - Accidental Release Measures. Added metric concentrations to Occupational Exposure Limit Values of Section 8. Amended reference to AICS in Literature References from NICNAS to AICIS\*.

### **References**

- \* Australian Dangerous Goods Code, as amended.
- \* Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
- \* WES = National Exposure Standards for Atmospheric Contaminants in the Occupational Environment in Exposure Standards section of HCIS, as amended.
- \* SWA = Safe Work Australia
- \* AS/NZS\* 1715: Selection, use and maintenance of respiratory protective devices.
- \* AS/NZS 1716: Respiratory protective devices.
- \* AS/NZS 1337: Eye protectors for the industrial applications.
- \* AS/NZS 1336: Recommended practices for eye protection in the industrial environment.
- \* AS/NZS 4501.2:2006 Occupational protective clothing - General requirements.
- \* Joseph R. Miller; Corrosion of Aluminium & Aluminium Alloys, ASM International, 1999
- \* Labelling of Workplace Hazardous Chemicals Code of Practice. SWA, as amended.
- \* The National Poisons Standard; Now published on Comlaw website.
- \* Standard for the Scheduling of Medicines and Poisons; Therapeutic Goods Authority.
- \* Australian Inventory of Chemical Substances maintained by Australian Industrial Chemicals Introduction Scheme(AICIS).
- \* Preparation of Safety Data Sheets for Workplace Hazardous Chemicals Code of Practice., SWA as amended.

Note:-

- HCIS is the Hazardous Chemicals Information System maintained by SWA;
- AS = Australian Standard; and
- NZS = New Zealand Standard.

### **Contact Person/Point**

BUSINESS HOURS: Product Information Officer, (03) 9335 4400

This SDS summarises our best knowledge of the health and safety hazard information of this product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is available on our website at [www.culbeag.com.au](http://www.culbeag.com.au)

## END OF SDS

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