



Safety Data Sheet

Acetic Acid 5-30%

SECTION 1: Identification

GHS Product identifier

Product name	Acetic Acid 5-30%
Product number	AAG5-30-500M, 1L, 2.5L, 5L, 10L
Brand	Hurstchem

Other means of identification

Ethanoic Acid

Recommended use of the chemical and restrictions on use

Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2/36 Hensbrook Loop 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classification of the substance or mixture

GHS classification in accordance with: Model WHS Regulations 2016

- Eye damage/irritation, Cat. 1

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- Skin corrosion/irritation, Cat. 1A

GHS label elements, including precautionary statements.

Pictograms



1. Corrosion

Signal word

Danger

Hazard statement(s)

H318

Causes serious eye damage.

H314

Causes severe skin burns and eye damage.

Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P264

Wash ... thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310

Immediately call a POISON CENTER/doctor/...

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340

IF INHALED: Remove person to fresh air and keep 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.

P405

Store locked up.

P501

Dispose of contents/container to ...

Other hazards which do not result in classification.

Classified as a Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

Statement regarding ingredients of unknown toxicity

GHS classification of the substance/mixture:

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Water

Concentration Balance
CAS no. 7732-18-5

2. Acetic acid

Concentration 5 - 30 %
CAS no. 64-19-7

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SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Evacuate to fresh air immediately. If unconscious place in recovery position, provide artificial respiration if breathing ceases. Seek immediate medical attention.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. Seek medical attention immediately.
In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. Seek immediate medical attention.
If swallowed	DO NOT induce vomiting. Rinse mouth thoroughly with water. Seek immediate medical attention.
Personal protective equipment for first-aid responders	Eye wash station, safety shower and First Aid kit.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use foam, dry chemical Carbon Dioxide, or water spray.

Specific hazards arising from the chemical.

Toxic gases may evolve including Oxides of Carbon.

Special protective actions for fire-fighters

Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

Further information

Hazchem code 2P

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Wear appropriate protective clothing. Ensure adequate ventilation. If possible, contain the spill. Evacuate all unnecessary personnel.

Methods and materials for containment and cleaning up.

Absorb with vermiculite or similar and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Wash the affected area with a large volume of water. Do not contaminate drains or waterways.

SECTION 7: Handling and storage

Precautions for safe handling

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Use only in an adequately ventilated area and avoid breathing in mists or vapours. Wear appropriate protective clothing to avoid any exposure and practice good personal hygiene.

Conditions for safe storage, including any incompatibilities.

Store in a dry, well-ventilated area away from all sources of ignition and incompatibles. No metal containers. Refer to: Australian Standard AS 3780-1994 'The storage and handling of corrosive substances.'

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Ensure adequate ventilation to maintain airborne concentrations below national exposure standards.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses or goggles

Skin protection

Chemical-resistant (nitrile) gloves and laboratory coat.

Body protection

National exposure standards

Acetic acid (glacial):

[TWA] 10ppm, 25mg/m³

[STEL] 15ppm, 37mg/m³

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirators when necessary.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colourless liquid
Colour	Clear
Odor	Distinct Vinegar
Melting point/freezing point	Not Available
Boiling point or initial boiling point and boiling range	Not Available
Flammability	Not Available
Lower and upper explosion limit/flammability limit	Not Available
pH	Acidic
Solubility	Soluble
Vapor pressure	Not Available
Density and/or relative density	Not Available
Relative vapor density	Not Available

SECTION 10: Stability and reactivity

Reactivity

Non-reactive under recommended conditions for use and storage.

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Chemical stability

Stable under recommended conditions for use and storage.

Possibility of hazardous reactions

Polymerisation will not occur.

Conditions to avoid.

Temperature extremes and direct sunlight.

Incompatible materials

Strong oxidisers, metals, and strong bases.

Hazardous decomposition products

Toxic gases may evolve.

SECTION 11: Toxicological information

Information on toxicological effects

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/irritation

Corrosive to eyes.

Respiratory or skin sensitization

Not data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No classification by IARC.

Reproductive toxicity

No data available.

Specific target organ toxicity (STOT) - single exposure.

No data available.

Specific target organ toxicity (STOT) - repeated exposure.

No data available.

Aspiration hazard

No data available.

Additional information

TOXICITY DATA: LD50 (Oral, Rat): 3310mg/kg

LC50 (Inhalation, Rat): 11.4 mg/l/4h

LD50 (Dermal, Rabbit): 1060 mg/kg

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SECTION 12: Ecological information

Toxicity

Prevent contamination of drains and waterways. Harmful effect on aquatic organisms. Harmful effect due to pH shift. Caustic even in diluted form.

Fish Toxicity; L.macrochirus LC50: 75 mg/l /96h Rainbow Trout LC50: >1,000mg/l/96h Daphnia Toxicity; Daphnia magna EC50: 47 mg/l /24h Algal Toxicity; Sc.quadricepsa IC5: 4000 mg/l/16h

Bacterial Toxicity; Ps. Putida EC5: 2850 mg/l /16h

Persistence and degradability

Not available.

Bioaccumulate potential

Not expected to bio-accumulate.

Mobility in soil

Not available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of in accordance with local authority guidelines.

Packaging disposal

Dispose of in accordance with local authority guidelines.

Other disposal recommendations

Nil

SECTION 14: Transport information

UN Number	2790
Hazchem emergency action code (EAC)	2P
UN Proper Shipping Name	Acetic Acid (solution 10-50%)
Transport hazard class(es)	8
Packing group	III

Special precautions for user

This material is incompatible in a placard load with any of the following: Class 1 - Explosives
Class 2.1 - Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk.

Class 2.3 - Toxic Gases

Class 4.2 - Spontaneously Combustible Substances

Class 4.3 - Dangerous When Wet Substances

Class 5.1 - Oxidising Agents

Class 5.2 - Organic Peroxides

Class 6 - Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids),

Class 7 - Radioactive Substances and are incompatible with food and food packaging in any quantity.

SECTION 15: Regulatory information

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Chemical Safety Assessment

- TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day week.
- STEL (Short Term Exposure Limit): The average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday.

SECTION 16: Other information

Further information/disclaimer

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

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Preparation information

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Can print: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).