



HURST SCIENTIFIC

## Safety Data Sheet Acetone

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### SECTION 1: Identification

#### GHS Product identifier

Product name	Acetone
Product number	ACET-2.5L, 5L, 10L, 20L
Brand	Hurstchem

#### Other means of identification

2-Propanone, Dimethyl Ketone, Pyro acetic Acid, Thinners.

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

Laboratory Solvent

#### 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

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### 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.

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

#### Classification of the substance or mixture

- Serious eye damage/eye irritation, Cat. 2A
- Flammable liquids, Cat. 2
- Specific target organ toxicity following single exposure, Cat. 3

#### GHS label elements, including precautionary statements.

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### Pictograms



1. Exclamation mark; 2. Flame

### Signal word

**Danger**

### Hazard statement(s)

H319

Causes serious eye irritation.

H225

Highly flammable liquid and vapor

H335

May cause respiratory irritation.

H336

May cause drowsiness or dizziness.

### Precautionary statement(s)

P264

Wash ... thoroughly after handling.

P280

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

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233

Keep container tightly closed.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242

Use non-sparking tools.

P243

Take action to prevent static discharges.

P303+P361+P353

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

P370+P378

In case of fire: Use ... to extinguish.

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container to ...

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312

Call a POISON CENTER/doctor/... if you feel unwell.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

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## SECTION 3: Composition/information on ingredients

### Mixtures

### Hazardous components

#### 1. Acetone

Concentration

100 % (volume)

CAS no.

67-64-1

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

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If inhaled	Evacuate to fresh air immediately. Apply artificial respiration if not breathing. Seek medical attention.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.
In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention.
If swallowed	DO NOT induce vomiting. Rinse mouth out with water. Give water to drink if patient is conscious. Seek medical attention.
Personal protective equipment for first-aid responders	Eye wash station, safety shower and First Aid kit.
Advice to Doctor	Treat symptomatically.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Water spray, Dry chemical, Carbon Dioxide or Alcohol-resistant foam.

### Specific hazards arising from the chemical.

Vapours are heavier than air and may travel to an ignition source and flash back. Vapours can spread along the ground and collect in low or confined areas. Incompatible with oxidizing agents, acids, reducing agents, bases, halogenated compounds, hexachloromelamine, sulphur dichloride, potassium tert-butoxide and sources of ignition. During a fire, irritating and highly toxic gases may be emitted by thermal decomposition or combustion including carbon monoxide and carbon dioxide.

### Special protective actions for fire-fighters

Fire fighters should wear a positive-pressure Self-Contained Breathing Apparatus (SCBA) and protective clothing (includes helmet, coat, trousers, boots, and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas where gases or fumes can accumulate. Do not use direct water stream. Eliminate ignition sources.

### Hazchem code 2YE

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment, and emergency procedures

Wear full protective clothing. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do NOT let product contaminate drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

### Methods and materials for containment and cleaning up.

Soak up using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. Collect material into suitably labelled dry chemical- waste containers and dispose of promptly as hazardous waste.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin, and clothing. Do not inhale product vapours.

### Conditions for safe storage, including any incompatibilities.

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Store in a cool, dry, well-ventilated, fire-proof area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Ground and bond storage containers. Store away from incompatible materials including oxidizing agents, acids, reducing agents, bases, halogenated compounds, hexa-chloromelamine, potassium tert-butoxide, sulphur dichloride and ignition sources. Protect from direct sunlight and static charges.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### CAS: 67-64-1

##### Acetone

AU/SWA (Australia): 1000 ppm; 2375 mg/m<sup>3</sup> STEL inhalation; 500 ppm; 1185 mg/m<sup>3</sup> TWA inhalation; Cal/OSHA: 500 ppm, (ST) 750 ppm, (C) 3000 ppm PEL inhalation; NIOSH: 250 ppm REL inhalation; OSHA: 1000 ppm PEL inhalation; 2400 mg/m<sup>3</sup> PEL inhalation

### Appropriate engineering controls

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Use a flame proof exhaust ventilation system.

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

#### Eye/face protection

Use with adequate ventilation. If determined by a risk assessment to be an inhalation risk exists, wear an organic vapour/particulate respirator or an air supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

#### Skin protection

Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

### 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.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Colourless liquid.
Colour	Clear
Odor	Pungent, sweet odour
Melting point/freezing point	-95.3°C
Boiling point or initial boiling point and boiling range	56.2°C
Lower and upper explosion limit/flammability limit	2.6-12.8%
Flash point	-20°C (closed cup)
pH	5-6
Solubility	Water soluble
Vapor pressure	24 kPa (20°C)
Density and/or relative density	0.79g/cm <sup>3</sup> (water = 1)
Relative vapor density	2.0

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## SECTION 10: Stability and reactivity

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### Reactivity

No information available.

### Chemical stability

Stable under recommended conditions for use and storage.

### Possibility of hazardous reactions

Polymerisation will not occur.

### Conditions to avoid.

Avoid excessive heat, direct sunlight, moisture, freezing, static discharges and high temperatures.

### Incompatible materials

Oxidising agents, mineral acids, strong alkalis, and Bromine.

### Hazardous decomposition products

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion including carbon monoxide and carbon dioxide.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Eye Contact Irritating, risk of corneal clouding.

Skin Contact May cause irritation. Will have a degreasing action on the skin. Prolonged/repeated skin contact may cause skin dryness, cracking, and chronic dermatitis.

Inhalation Can cause irritation. May cause headaches, drowsiness, dizziness, salivation, nausea, vomiting and coma. Irritating to mucous membranes and respiratory tract.

Ingestion Moderately toxic. May cause gastric irritation, gastro-intestinal complaints, headache, salivation, nausea, vomiting, dizziness, narcosis, and coma.

#### Skin corrosion/irritation

Repeated exposure may cause skin dryness and cracking.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

No classification.

#### Germ cell mutagenicity

No classification.

#### Carcinogenicity

No evidence of carcinogenic properties.

#### Reproductive toxicity

No classification.

#### Specific target organ toxicity (STOT) - single exposure.

The substance may cause effects on the central nervous system, liver, kidneys, and gastrointestinal tract.

#### Specific target organ toxicity (STOT) - repeated exposure.

Repeated or prolonged contact with skin may cause dermatitis.

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### Aspiration hazard

No classification

### Additional information

Oral LD50 Rat: 5,800mg/kg

Inhalation LC50 Rat: > 20mg/L (4hr)

Dermal LD50 Rabbit: >7,400mg/kg

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## SECTION 12: Ecological information

### Toxicity

No data available.

### Persistence and degradability

Readily biodegradable: 91% in 28 days.

### Bioaccumulate potential

Not expected to bio-accumulate.

### Mobility in soil

High mobility in soil.

### Other adverse effects

Environmental fate (exposure) Do not contaminate drains and waterways.

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## 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

Special precautions Nil.

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## SECTION 14: Transport information

UN Number	1090
Hazchem emergency action code (EAC)	2YE
UN Proper Shipping Name	Acetone
Transport hazard class(es)	3
Packing group	II

### Special precautions for user

Incompatible with loads containing: Class 1, Class 2.1, if both the Class 3 and Class 2.1 dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are Nitro methane, Class 7.

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## SECTION 15: Regulatory information

### Chemical Safety Assessment

- Poison Schedule: S5
- 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.

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- 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.

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## 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).