

# SAFETY DATA SHEET

**ACETONE**

Infosafe No.: HXHF3  
ISSUED Date : 28/02/2022  
ISSUED by: RECOCHEM INC.

## 1. Identification

**GHS Product Identifier**

ACETONE

**Product Code**

16255

**Company name**

RECOCHEM INC. (ABN 69 010 485 999)

**Address**

1809 Lytton Road Lytton  
QLD 4178 AUSTRALIA

**Telephone/Fax Number**

Tel: (07) 3308 5200

Fax: (07) 3308 5201

**Emergency phone number**

Business Hours (07) 3308 5200, After Hours 1300 131 001, Poisons Information: Australia: 13 11 26 New Zealand: 0800 764 766

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

Solvent

**Other Names**

Name	Product Code
2-PROPANONE	16255
DIMETHYL KETONE	16255

## 2. Hazard Identification

**GHS classification of the substance/mixture**

Eye Damage/Irritation: Category 2A

Flammable Liquids: Category 2

STOT Single Exposure: Category 3 (narcotic)

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

AUH066 Repeated exposure may cause skin dryness or cracking.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Precautionary statement – General**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

**Pictogram (s)**

Flame, Exclamation mark

**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.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary statement – Response**

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.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P370+P378 In case of fire: Use foam/water spray/fog for extinction.

**Precautionary statement – Storage**

P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

**Precautionary statement – Disposal**

P501 Dispose of contents/container in accordance with local regulations

**Other Information**

Hazardous chemical according to classification by Safe Work Australia

Dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

### 3. Composition/information on ingredients

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**Ingredients**

Name	CAS	Proportion
Acetone	67-64-1	>99 %

### 4. First-aid measures

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**Inhalation**

Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**Ingestion**

If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

**Skin**

If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. Transport to nearest medical facility for additional treatment if necessary.

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### Eye contact

If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek immediate medical assistance.

### Advice to Doctor

Treat symptomatically.

### Most important symptoms/effects, acute and delayed

Inhalation: Breathing of high vapour concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continuous inhalation may result in unconsciousness and death.

Skin: May include burning sensation and/or a dried/cracked appearance.

Eye: May include burning sensation, redness, swelling and/or blurred vision.

Ingestion: May include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever

## 5. Fire-fighting measures

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### Suitable Extinguishing Media

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

### Special Protective Equipment for fire fighters

Wear full protective clothing and self-contained breathing apparatus.

### Specific Hazards Arising From The Chemical

A highly flammable liquid. Carbon monoxide and/or carbon dioxide may be evolved. May form flammable vapour mixture with air. Avoid all ignition sources. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Heating can cause expansion or decomposition leading to violent rupture of containers. Containers exposed to intense heat from fires should be cooled with large quantities of water.

### Hazchem Code

·2YE.

### Decomposition Temperature

Data not available

## 6. Accidental release measures

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### Emergency Procedures

Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

### Clean-up Methods - Small Spillages

For small spills (<1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

### Clean-up Methods - Large Spillages

For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

### Environmental Precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly..

## 7. Handling and storage

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### Precautions for Safe Handling

Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment. Flameproof equipment necessary in area where chemical is being used. Vapours may accumulate in low or confined areas.

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### Conditions for safe storage, including any incompatibilities

Bulk storage tanks should be banded. Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

## 8. Exposure controls/personal protection

### Occupational exposure limit values

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia -  
Acetone: 1185mg/m<sup>3</sup> (500ppm) TWA (8hr), STEL 2375mg/m<sup>3</sup> (1000ppm)

### Biological Limit Values

No biological limit allocated.

### Appropriate engineering controls

Ensure that adequate ventilation is provided. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

### Respiratory Protection

If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

### Eye Protection

Wear safety goggles.

### Thermal Hazards

Not applicable.

### Body Protection

Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.

## 9. Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid	Appearance	Clear colourless liquid
Odour	Characteristic	Decomposition Temperature	Data not available
Boiling Point	56°C	Solubility	Miscible with water
pH	Not applicable	Vapour Pressure	186 mbar @ 20°C
Vapour Density (Air=1)	2	Evaporation Rate	5.6 (Butyl acetate = 1)
Odour Threshold	Data not available	Partition Coefficient: n-octanol/water	0.2
Density	0.79 g/ml @ 20°C	Flash Point	-18°C (Closed Cup)
Flammability	Highly flammable	Auto-Ignition Temperature	465 °C
Flammable Limits - Lower	2.15%	Flammable Limits - Upper	13.0%
Initial boiling point and boiling range	56 °C	Kinematic Viscosity	Data not available (@ 20°C)
Melting/Freezing Point	-95 °C		

## 10. Stability and reactivity

### Reactivity

Stable under normal conditions of use.

### Chemical Stability

Stable under normal conditions of use.

**Conditions to Avoid**

Avoid heat, sparks, open flames and other ignition sources.

**Incompatible materials**

Strong oxidising agents, reducing agents, acids, alkalis.

**Hazardous Decomposition Products**

Burning can produce carbon monoxide and/or carbon dioxide.

**Possibility of hazardous reactions**

Stable under normal conditions of use.

## 11. Toxicological Information

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**Acute Toxicity - Oral**

LD50 Oral (rat) > 2000 mg/kg

**Acute Toxicity - Inhalation**

LC50 Inhalation (rat, 4h) > 20 mg/l

**Skin corrosion/irritation**

Skin - rabbit, Result - Irritating to skin (48h).

May cause skin irritation. Will have a degreasing effect on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis

**Serious eye damage/irritation**

Moderate to severe eye irritant. High concentrations of 500-1000ppm are irritating to eyes.

**Respiratory sensitisation**

Not expected to be a sensitiser

**Skin Sensitisation**

Not expected to be a sensitiser

**Germ cell mutagenicity**

Not expected to be mutagenic

**Carcinogenicity**

Not expected to be carcinogenic

**Reproductive Toxicity**

Not expected to impair reproduction

**STOT-single exposure**

May cause drowsiness or dizziness

**STOT-repeated exposure**

Central nervous system: repeated exposure affects the nervous system. Effects seen at high doses only

**Aspiration Hazard**

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal

## 12. Ecological information

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**Ecotoxicity**

Acute toxicity:

Aquatic invertebrate - Low toxicity: LC/EC/IC50 > 1000mg/l

Microorganisms - Low toxicity: LC/EC/IC50 > 1000mg/l

Chronic toxicity:

Aquatic invertebrate - Data not available

Microorganisms - Data not available

**Persistence and degradability**

Readily biodegradable.

**Mobility**

Miscible with water. If product enters soil, it will be mobile and may contaminate groundwater.

**Bioaccumulative Potential**

Not expected to bioaccumulate significantly.

**Other Adverse Effects**

Data not available.

**Acute Toxicity - Fish**

Acute toxicity:

Low toxicity: LC/EC/IC50 > 1000mg/l

Chronic toxicity:

Data not available

**Acute Toxicity - Algae**

Acute toxicity:

Low toxicity: LC/EC/IC50 > 1000mg/l

Chronic toxicity:

Data not available

### 13. Disposal considerations

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**Disposal considerations**

Ensure waste disposal conforms to local waste disposal regulations.

### 14. Transport information

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**U.N. Number**

1090

**UN proper shipping name**

ACETONE

**Transport hazard class(es)**

3

**Packing Group**

II

**Hazchem Code**

·2YE.

**IERG Number**

14

**UN Number (Air Transport, ICAO)**

1090

**IATA/ICAO Proper Shipping Name**

ACETONE

**IATA/ICAO Hazard Class**

3

**IATA/ICAO Packing Group**

II

**IMDG UN No**

1090

**IMDG Proper Shipping Name**

ACETONE SOLUTIONS

**IMDG Hazard Class**

3

**IMDG Pack. Group**

II

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### Other Information

UN number: 1090  
Proper shipping name: Acetone  
Australian Dangerous Goods class: 3  
Australian Dangerous Goods packing group: II  
Hazchem code: -2YE

## 15. Regulatory information

### Regulatory information

Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76): 14

### Poisons Schedule

S5

### Australia (AICS)

Listed

## 16. Other Information

### User Codes

User Title Label	User Codes
Wis Numbers	00752556
Wis Numbers	00754554
Wis Numbers	03579154

### Revisions Highlighted

Changes in this revision: Reviewed due to expiration

### Other Information

Revision number: 7

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