

## ACETONE

**SECTION 1** **PRODUCT IDENTIFIER AND CHEMICAL IDENTITY**

<b>Product Identifier</b>	<b>ACETONE</b>
<b>Other Names</b>	2-Propanone, Dimethyl Ketone
<b>Recommended Use</b>	Solvent

**Details of Supplier/Manufacturer**



<b>Company</b>	Diggers/Recochem Inc.
<b>Address</b>	1809 Lytton Road, Lytton, QLD, 4178
<b>Phone</b>	1800 077 168
<b>Website</b>	sales@recochem.com

**Emergency Telephone Numbers**

<b>Business Hours</b>	1800 077 168
<b>Poisons Information</b>	Australia: 13 11 26 New Zealand: 0800 764 766

**SECTION 2** **HAZARDS IDENTIFICATION**

<b>Hazardous chemical</b>	according to classification by Safe Work Australia Dangerous
<b>Dangerous goods</b>	according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

<b>GHS Classification</b>		<b>Hazard Statement</b>
Flammable Liquids, Category 2	 GHS07: Harmful  GHS02: Flammable	H225 Highly flammable liquid and vapour
Serious Eye Damage/Irritation, Category 2A		H319 Causes serious eye irritation
Specific Target Organ Toxicity (Single exposure), Category 3		H336 May cause drowsiness or dizziness
Non-GHS (Safe Work Australia)		AUH066 Repeated exposure may cause skin dryness or cracking

## ACETONE

<b>Signal Word</b>	<b>DANGER</b>
<b>General</b>	
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
<b>Hazard Statements</b>	
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
<b>Preventative</b>	
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/ventilation/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
<b>Response</b>	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
<b>Storage</b>	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	
P501	Dispose of contents/container in accordance with local regulations.

## ACETONE

**SECTION 3** **COMPOSITION/ Information on Ingredients****Substances**

Formula	C3H6O
Molecular weight	58.08 g/mol
CAS-No.	67-64-1
EC-No.	200-662-2
Index-No	200-662-2

**Hazardous Ingredients**

Component	CAS Number	Concentration (%)
Acetone	67-64-1	>99

**SECTION 4** **FIRST AID MEASURES****4.1 Description of first-aid measures**

## General advice

Show this material safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed.**

**ACETONE**

No data available.

**SECTION 5 FIREFIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

Dry powder Dry sand

**Unsuitable extinguishing media**

Do NOT use water jet.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides

Combustible.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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<b>SECTION 7</b>	<b>HANDLING AND STORAGE</b>
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**7.1 Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**7.2 Conditions for safe storage, including any incompatibilities****Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Storage class**

Storage class (TRGS 510): 3: Flammable liquids

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.3 no other specific uses are stipulated.

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## SECTION 8

## EXPOSURE CONTROLS AND PERSONAL PROTECTION

## 8.1 Exposure control measures

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)

## 8.2 Biological monitoring

No biological limit allocated.

## 8.3 Engineering controls

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

## 8.4 Individual protection measures

Eye and Face Protection	Wear safety goggles.
Skin Protection	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
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.
Thermal Hazards	Not applicable.

## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless clear liquid
Odour	Characteristic
Odour threshold (ppm)	Data not available
pH	Not applicable
Melting point/freezing point (°C)	-95
Initial boiling point and boiling range (°C)	56
Flash point (°C)	-18 (closed cup)
Evaporation rate (Butyl acetate = 1)	5.6
Flammability	Highly flammable

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Upper/lower flammability or explosive limits (%)	2.15 – 13.0
Vapour pressure (mmHg @ 20°C)	186
Vapour density (air = 1)	2
Density (g/ml @ 15°C)	00.79
Solubility (kg/m3)	Miscible with water
Partition coefficient: n-octanol/water	0.2
Auto-ignition temperature (°C)	465
Decomposition temperature (°C)	Data not available
Kinematic viscosity (mm2/s @ 20°C)	Data not available

**SECTION 10 STABILITY AND REACTIVITY****Reactivity**

Stable under normal conditions of use.

**Chemical stability**

Stable under normal conditions of use.

**Possibility of hazardous reactions**

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.

## ACETONE

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity	Low toxicity - LD50 Oral (rat) > 2000 mg/kg 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 or 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
Specific Target Organ Toxicity (STOT) – single exposure	May cause drowsiness or dizziness
Specific Target Organ Toxicity (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.

**SECTION 12 ECOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	
Fish	Low toxicity: LC/EC/IC50 > 1000mg/l
Aquatic Invertebrate	Low toxicity: LC/EC/IC50 > 1000mg/l
Algae	Expected to have low toxicity: LC/EC/IC50 > 1000mg/l
Microorganisms	Low toxicity: LC/EC/IC50 > 1000mg/l

<b>Chronic Toxicity</b>	
Fish	Data not available
Aquatic Invertebrate	Data not available
Algae	Data not available
Microorganisms	Data not available



**ACETONE****Persistence and degradability**

Readily biodegradable.

**Bioaccumulative potential**

Not expected to bioaccumulate significantly.

**Mobility in soil**

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

**Other adverse effects**

Data not available.

**SECTION 13    DISPOSAL CONSIDERATIONS****Product**

Ensure waste disposal conforms to local waste disposal regulations.

**SECTION 14    TRANSPORT INFORMATION**

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

## ACETONE

**SECTION 15** **REGULATORY INFORMATION**

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule	5
Australian Inventory of Chemical Substances (AICS)	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76)	14

This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Code and Protect cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document. If clarification or further information is needed, the user should contact Sydney Solvents on 1800 60 50 40.

**END OF SAFETY DATA SHEET**