



SAFETY DATA SHEET

SECTION 1 IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Identifier	DIACETONE ALCOHOL
Other Names	4-Hydroxy-4-Methyl-2-Pentanone
Manufacturer's Product Code	16766
Recommended Use	Solvent

Details of Supplier/Manufacturer

Company:	Recochem Inc. ABN: 69 010 485 999
Address:	1809 Lytton Road, Lytton, Queensland 4178
Phone:	(07) 3308 5200 Fax: (07) 3308 5201
Website:	www.recochem.com.au



Emergency Telephone Numbers

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

SECTION 2 HAZARDS IDENTIFICATION

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

Signal Word	WARNING
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Hazardous chemical classification	Pictogram	Hazard statement
Flammable Liquids, Category 3	 FLAME	H226 Flammable liquid and vapour
Serious Eye Damage/Irritation, Category 2A	 EXCLAMATION MARK	H319 Causes serious eye irritation

Product: DIACETONE ALCOHOL**Precautionary statements:**

<i>GENERAL</i>	
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
<i>PREVENTATIVE</i>	
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
P264	Wash thoroughly after handling
P280	Wear protective gloves/eye protection/face protection
<i>RESPONSE</i>	
P303 + P361 + P353	IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower
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
P370 + P378	In case of fire: Use foam/water spray/fog for extinction
<i>STORAGE</i>	
P403 + P235	Store in a well-ventilated place. Keep cool
<i>DISPOSAL</i>	
P501	Dispose of contents/container in accordance with local regulations

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS**Ingredients Names and Proportions**

Chemical Entity	CAS Number	Proportion (%)
Diacetone Alcohol	123-42-2	100

SECTION 4 FIRST AID MEASURES**Description of necessary first aid measures**

Inhalation:	Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.
Skin Contact:	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.
Eye Contact:	If in eyes, hold eyes open, flood with water for at least 15 minutes or until advised to do so by a Poisons Information Centre or a doctor.
Ingestion:	If swallowed, do NOT induce vomiting. Rinse mouth with water. Seek medical assistance.

Symptoms caused by exposure

Inhalation:	In high concentrations may produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness. Lower concentrations may irritate nose, throat and respiratory tract.
Skin:	May include redness and itching.
Eye:	A severe eye irritant. May include redness, burning, blurred vision, or swelling.

Product: DIACETONE ALCOHOL

Ingestion:	May cause nausea, vomiting and central nervous system depression (similar to drunkenness). If vomiting occurs aspiration in to lungs may cause pneumonitis.
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Medical attention and special treatment

Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing equipment

Foam, dry agents (chemical powder, carbon dioxide) water spray or fog.

Specific hazards arising from the chemical

Carbon monoxide and/or carbon dioxide may be evolved.

Special protective equipment and precautions for fire fighters

Wear full protective clothing and self-contained breathing apparatus. Hazchem code ●2Y.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and 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.

Environmental precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers.

Methods and materials for containment and cleaning up

For spills, collect and seal in properly labelled containers or drum for safe disposal.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Flammable liquid. Avoid breathing material and contact with skin and eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. 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. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated area. Do not store near strong oxidants. Store away from heat or sources of ignition.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia - Diacetone Alcohol: 238mg/m³ (50ppm) TWA.

Biological monitoring

No biological limit allocated.

Engineering controls

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

Product: DIACETONE ALCOHOL**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 adequate airborne levels, 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:	Clear liquid
Odour:	Characteristic
Odour threshold (ppm):	Data not available
pH:	Data not available
Melting point/freezing point (°C):	-44
Initial boiling point and boiling range (°C):	150 - 172
Flash point (°C):	54 (CC)
Evaporation rate (Butyl acetate = 1):	0.15
Flammability:	Flammable
Upper/lower flammability or explosive limits (%):	1.8 – 6.9
Vapour pressure (kPa @ 20°C):	0.12
Vapour density (air = 1):	4
Density (g/ml @ 20°C):	0.94
Solubility:	Soluble in water
Partition coefficient: n-octanol/water:	Data not available
Auto-ignition temperature (°C):	620
Decomposition temperature (°C):	Data not available
Kinematic viscosity (mm ² /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.

Product: DIACETONE ALCOHOL**Conditions to avoid**

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

Incompatible materials

Strong oxidising agents and strong acids.

Hazardous decomposition products

Burning can produce carbon monoxide and/or carbon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute toxicity:	Low toxicity – Oral LD50 (rat): >2000mg/kg Skin LD50 (rabbit): >2000mg/kg Inhalation LC50 greater than near saturated vapour concentration/ 4 hour (rat).
Skin corrosion/irritation:	Slightly irritating to skin.
Serious eye damage/irritation:	A severe eye irritant. High vapour concentration may also cause irritation.
Respiratory or skin sensitisation:	Not expected to cause sensitisation
Germ cell mutagenicity:	Not expected to be mutagenic
Carcinogenicity:	Not expected to be carcinogenic
Reproductive toxicity:	Not expected to impair fertility
Specific Target Organ Toxicity (STOT) – single exposure:	Breathing in high concentrations can produce central nervous system depression. Swallowing can cause nausea, vomiting and central nervous system depression.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Prolonged exposure or repeated exposure via skin may cause defatting leading to dermatitis. May cause kidney and liver damage.
Aspiration hazard:	Data not available

SECTION 12 ECOLOGICAL INFORMATION**Ecotoxicity**

Acute toxicity:

Fish –	Low toxicity: LC/EC/IC50 > 100mg/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

Chronic toxicity:

Fish –	No data available
Aquatic invertebrate –	No data available
Algae –	No data available
Microorganisms –	No data available

Product: DIACETONE ALCOHOL

Persistence and degradability

Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

Bioaccumulative potential

Not expected to bioaccumulate.

Mobility in soil

If product enters soil, it will be highly mobile and may contaminate groundwater.

Other adverse effects

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14 TRANSPORT INFORMATION

UN number:	1148
Proper shipping name:	Diacetone Alcohol
Australian Dangerous Goods class:	3
Australian Dangerous Goods packing group:	III
Hazchem code:	●2Y

SECTION 15 REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	Not scheduled
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	16

SECTION 16 OTHER INFORMATION

Date of preparation:	02/02/2016
Revision number:	5
Changes in this revision:	Update to GHS standard

This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Recochem 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 Recochem on (07) 3308 5200.
