



# Sydney Solvents Pty Ltd

Unit 3, 10 Production Place Jamisontown NSW 2750

www.sydneysolvents.com.au CHEMCALL: 1800 127 406

# FOR FURTHER INFORMATION, PLEASE REFER TO THE SDS

Issue: October 20

**PRODUCT:** Acetone

Other Names: 2-propanone, dimethyl ketone

**Uses:** Coatings formulations, laboratory reagent, cleaning

fluids, etc.

Signal Word: DANGER

UN No.	1090
<b>Dangerous Goods Class</b>	3
Subsidiary Risk	None
Pack Group	II
Hazchem	•2YE
Poison Schedule	5

Hazardous Nature:	This product is classified as hazardous under GHS for Australia criteria		
Hazardous Classification:	Flammable Liquids: 2; Serious Eye Damage/Irritation: 2A; Specific Target Organ Toxicity (Single Exposure - Narcotic Effects): 3		
Hazardous Statement:	Highly Flammable liquid and vapour		
Exposure Standards:	TWA: 1185 mg/m³ (500 ppm). Vapour Threshold: 100 -140 ppm: STEL: 2375 mg/m³ (1000 ppm)		

# **Physical Characteristics (Typical)**

**Section 9 of SDS** 

Appearance Clear, colourless liquid

Boiling Point/ Range (°C): 56
Flash Point (°C): -17
Specific Gravity/ Density (g/ml @ 15°C): 0.79

Chemical Stability: Stable at room temperature and pressure

Product Ingredients Section 3 of SDS

Acetone 67-64-1 > 99.5 Water 7732-18-5 < 0.5

For further ingredients information, please refer to the full SDS.

**GHS Pictograms** 

**Section 2 of SDS** 





For further Risk and Safety information, please refer to the full SDS.

#### **DEFINITIONS**

Dangerous Goods	Products that are classified as Dangerous for Storage and Transport: these products are allocated a UN No., with accompanying Class, Pack Group, and Sub. Risk, if required. Products that do not have a specific description under the code, but have low flash points, or such, must be classified under their most significant risk, eg. Flammable Goods N.O.S. (Not otherwise specified), UN 1993			
Poisonous Substance	Products that are classified under the poisons schedule are a poisonous substance. The proportion of the poison in the product will determine its numerical classification.			
Hazardous Substance	Products are considered to be Hazardous if they pose an intrinsic risk to human or environmental health, such as mutagens (able to change DNA), teratogens (able to result in birth defects), carcinogens (able to generate cell abnormalities), etc. Materials are not hazardous substances if they pose risks such as potential for misuse, like flammability, or explosions when heated and ignited.			

# Safety Data Sheet

## **ACETONE**

### 1. IDENTIFICATION

Product Name: Acetone

**Other Names:** 2-propanone, dimethyl ketone

Chemical Family: Ketones

**Recommended Use:** Coatings formulations, laboratory reagent, cleaning fluids, etc.

**Supplier:** Sydney Solvents Pty Ltd

**ABN:** 51 104 642 695

Street Address: Unit 3, 10 Production Place, Jamisontown NSW 2750

**Telephone:** 02 4722 5060

Fax:

Emergency phone: CHEMCALL: 1800 127 406

All other inquiries: 02 4722 5060

### 2. HAZARDS IDENTIFICATION

#### **Hazardous Nature**

This product is classified as hazardous under GHS for Australia criteria

#### **Hazardous Classification**

Flammable Liquids: 2; Serious Eye Damage/Irritation: 2A; Specific Target Organ Toxicity (Single Exposure - Narcotic Effects): 3

#### **Hazardous Statement**

Highly Flammable liquid and vapour

#### **GHS Pictograms**





## **Hazard Statements**

H225: Highly flammable liquid and vapour

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

AUH066: Repeated exposure may cause skin dryness or cracking

## **Precautionary Statements**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/light/.../equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge.

P261: Avoid breathing dust/fume/ gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312: Call a POISON CENTER or doctor/ physician if you feel unwell

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P337+313: If eye irritation persists get medical advice/attention.

P370+378: In case of fire: use water mist, foam, dry chemical, carbon dioxide, dry earth or sand to extinguish

P403+235: Store in a well ventilated place. Keep cool. P405: Store locked up

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**Dangerous Goods Classification** 3

**Poisons Schedule** 5

Signal Word DANGER

## 3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Acetone	67-64-1	> 99.5
Water	7732-18-5	< 0.5

#### 4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

#### Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

### **Eye Contact**

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

#### **Skin Contact**

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

#### Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate medical attention.

#### **First Aid facilities**

Provide eye baths and safety showers.

#### **Medical Attention**

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

## 5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

#### Suitable extinguishing media

Water mist, alcohol-resistant foam, dry chemical, carbon dioxide, dry sand. Do not use water jet.

#### **Hazards from combustion products**

Carbon dioxide, carbon monoxide

## Precautions for fire fighters and special protective equipment

Fully self-contained breathing aparatus, overalls, and safety boots

Hazchem Code: •2YE

### 6. ACCIDENTAL RELEASE MEASURES

### **Emergency Procedures**

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

### Methods and materials for containment

# **Major Land Spill**

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard.
- Prevent liquid from entering sewers, watercourses, or low-lying areas.

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- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- Recover by pumping use explosion proof pump or hand pump or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity"

#### **Major Water Spill**

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity".

#### 7. HANDLING AND STORAGE

## Precautions for safe handling

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static charge. Use grounding leads to avoid discharge (electrical spark). Use only in well-venitalated areas or outdoors. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.

## **Conditions for safe storage**

Store locked up in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are combustible. This product will fuel a fire in progress.

## **Incompatible materials**

Painted surfaces, natural rubber, polystyrene, EDPM, neoprene, strong oxidisers.

## 8. EXPOSURE CONTROLS: PERSONAL PROTECTION

### **National Exposure Standards**

The time weighted average concentration (TWA) for this product is: 1185 mg/m³ (500 ppm). Vapour Threshold: 100 - 140 ppm, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit (STEL) is: 2375 mg/m³ (1000 ppm), which is the maximum allowable exposure concentration at any time. Products may be identified as skin sensitisers, indicated as (Sen), which means that the product will induce ever-increasing adverse effects with subsequent exposure, such as loss of feeling in extremities, or pain or irritation on contact with the product. Where (Sk) appears, the product will be easily absorbed to the skin, risking overexposure and symptoms similar to Ingestion or Inhalation. applies in this case. Refer: Section 11: Toxicological Effects.

#### **Biological limit values**

None established

#### **Engineering Controls: Ventilation**

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

### **Personal Protective Equipment**

**Respiratory Protection:** Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

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Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear, colourless liquid
Boiling Point/ Range	°C	56
Flash Point	°C	-17
Density @ 15°C	g/ml	0.79
Vapour Pressure @ 20°C	hPa	240
Explosive Limits (LEL – UEL)	%	2.2 – 13
Vapour Density @ 20°C	-	2.0 (Air = 1)
Autoignition Temperature	°C	465
Viscosity @ 20°C (Dynamic)	mPa.s	0.32
Percent Volatiles	%	100
Solubility with Water	% w/w	Miscible

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

### 10. STABILITY AND REACTIVITY

#### **Chemical Stability**

Stable at room temperature and pressure

## **Conditions to avoid**

Sources of heat and ignition, open flames.

## **Hazardous decomposition products**

Carbon oxides on burning

## **Hazardous reactions**

Strong oxidising agents, strong alkalis and strong mineral acids and bromine.

Oxidising agents may form explosive peroxides.

# **Hazardous Polymerisation**

Will not occur

## 11. TOXICOLOGICAL INFORMATION

#### **Acute Effects**

#### Ingestion

This material is of low oral toxicity but may cause irritation to the throat, trachea and respiratory tract following ingestion. It may cause nausea. Swallowing large amounts will have a narcotic effect: headaches, dizziness, euphoria, loss of appetite and possibly loss of consciousness. Vomiting may cause the product to be aspirated to the lungs resulting in chemical pneumonitis.

### **Eye Contact**

Liquid may cause moderate to severe eye irritation and corneal damage. Exposure to vapour can cause eye irritation. Concentrations of  $\geq$  100 ppm have been reported to be irritating.

#### Skin Contact

Brief contact may cause mild irritation. Prolonged or repeated exposure may cause defatting resulting in dryness or cracking of the skin (irritant contact dermatitis). Due to its low toxicity and high volatility, this product is unlikely to be absorbed through the skin in harmful amounts unless evaporation is prevented.

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#### **Inhalation**

Vapour concentrations above 500 ppm are irritating to the nose and throat. Inhalation of high vapour concentrations can result in narcotic effects including headaches, dizziness, loss of coordination, nausea, loss of appetite and possibly loss of consciousness.

#### **Chronic Effects**

Repeated or prolonged skin contqact with the liquid may cause irritant contact dermatitis. A study of 800 workers occupationally exposed to these vapours (600 - 2150 ppm) over an 18 year period revealed no significant adverse health effects compared with unexposed workers.

### **Other Health Effects Information**

Exposure to this product potentiates (greatly enhances) the liver and kidney toxicity of chlorinated hydrocarbon solvents such as trichloroethylene and chloroform. Fasting and diabetes increases the normal levels of acetone in the body. Dieters and diabetics exposed to levels of acetone may feel overexposure effects at lower levels of occupational exposure. Exposure to high concentrations of acetone may aggravated pre-existing skin, respiratory, blood, liver, kidney and reproductive disorders in humans.

## **Toxicological Information**

LD<sub>50</sub> (oral, rat): 5800 mg/kg, LD<sub>50</sub> (dermal, rabbit): 7500 mg/kg

LC<sub>50</sub> (inhalation, rat) 76 mg/L

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

#### **Aquatic Toxicity**

Fish Toxicity (rainbow trout, goldfish, bluegill): LC<sub>50</sub> (Oncorhynchus mykiss (rainbow trout)):5540 mg/L/96 h

Daphnia Magna EC<sub>50</sub> (24 hr): LC<sub>50</sub> (Daphnia pulex (Water flea)): 8800 mg/L/48 h

Blue-green algae (Toxicity threshold 7-8 days): 530 mg/L Green algae (Toxicity threshold 7-8 days): 7500 mg/L

#### Persistence/ degradability

Readily biodegradable. Degrades by photoxidation in air, with low photochemical ozone creation potential. This product can be removed from the air by rainfall. Considered as readily biodegradable. If released to water, this product will dissolve and vo

#### **Mobility**

In soil, this product will evaporate and leach readily in most types of soil. Acetone has a negligible tendency to bioaccumulate. BCF: 3

### 13. DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

### **Special Precautions for Landfill or Incineration**

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product must be disposed as chemical waste in accordance with the local authority.

### 14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Tr	e Transport Air Tra		ransport
UN No.	1090	UN No.	1090	UN No.	1090
Proper Shipping Name	ACETONE	Proper Shipping Name	ACETONE	Proper Shipping Name	ACETONE
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None

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# **Safety Data Sheet**

Pack Group	11	Pack Group	II	Pack Group	II
Hazchem	•2YE	Hazchem	•2YE	Hazchem	•2YE

## **Dangerous Goods Segregation**

This product is classed as Dangerous Goods Class 3, packing group II. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail for information.

### 15. REGULATORY INFORMATION

Country/ Region: Australia

Inventory: AICS
Status: Listed

**Poisons Schedule:** 5

### 16. OTHER INFORMATION

Reasons for Issue: 5 year review and update. GHS classification and statements updated.

**Abbreviations:** 

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety Council

#### References:

- Supplier Safety Data Sheets
- <a href="http://chem.sis.nlm.nih.gov/chemidplus">http://chem.sis.nlm.nih.gov/chemidplus</a> (October 20)
- https://www.nicnas.gov.au/ (October 20)
- OECD eChemPortal Substance Search

https://www.echemportal.org/echemportal/participant/page.action?pageID=9

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Australasian Solvents and Chemicals Company Pty. Ltd.

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