

Safety Data Sheet

Hazardous, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Acetone**

SYNONYMS	PRODUCT CODE
Acetone 1 Lt	ACETONE/1
Acetone 20 Lts	ACETONE/20
Acetone 200 Lts	ACETONE/200

Recommended use: General Purpose Solvent. Acetone is an effective clean-up solvent for difficult resins, waxes and adhesives.

Supplier: Adheseal
ABN: 16 010 441 013
Street Address: 26 Wolverhampton Street
Stafford
Queensland 4053
Telephone: (07) 3356 0000
Facsimile: (07) 3356 0005
Email: sales@adheseal.com.au

Emergency Telephone number: (07) 3356 0000

2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of Safe Work Australia GHS 7.



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Signal Word

Danger

HAZARD CLASSIFICATIONS

Flammable Liquids - Category 2

Acute Toxicity - Dermal - Category 4

Acute Toxicity - Inhalation - Category 4

Aspiration Hazard - Category 2

Acute Hazard to the Aquatic Environment - Category 3

HAZARD STATEMENTS

H225	Highly flammable liquid and vapour.
AUH066	Repeated exposure may cause skin dryness or cracking.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

PREVENTION PRECAUTIONARY STATEMENTS

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

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P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting equipment. equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe fume, gas, mist, vapour's or spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing protective clothing, gloves, eye/face protection and suitable respirator.

RESPONSE PRECAUTIONARY STATEMENTS

P101	If medical advice is needed, have product container or label at hand.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P310	Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.

STORAGE PRECAUTIONARY STATEMENTS

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant original container with a resistant inner liner.

DISPOSAL PRECAUTIONARY STATEMENT

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
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Poison Schedule: S5. Caution

DANGEROUS GOOD CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

DANGEROUS GOODS CLASS: 3

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Acetone	67-64-1	>99 % (w/w)
Ingredients determined to be Non-Hazardous		Balance
		<hr/> 100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

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Inhalation: Keep victim calm and remove to fresh air if safe to do so. Obtain medical treatment immediately.

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. Transport to nearest medical facility for additional treatment if necessary.

Ingestion: If swallowed, do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Obtain medical treatment immediately.

PPE for First Aiders: Wear safety shoes, gloves, apron, chemical goggles, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. 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

Hazchem Code: •2YE

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Highly flammable liquid and vapour. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc.) must be eliminated both in and near the work area. Do NOT smoke.

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Firefighting further advice: Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapour's. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

DANGEROUS GOODS - INITIAL EMERGENCY RESPONSE GUIDE NO: 14

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition.

Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 3 Flammable Liquid as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL OCCUPATIONAL EXPOSURE LIMITS:

TWA		STEL		NOTICES
ppm	mg/m ³	ppm	mg/m ³	

Acetone

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

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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.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

Personal Protection Equipment: SAFETY SHOES, GLOVES, APRON, CHEMICAL GOGGLES, RESPIRATOR.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear safety shoes, gloves, apron, chemical goggles, respirator. Use with adequate ventilation. If inhalation risk

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exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Material Family:	Hydrocarbon Liquid
Base Units:	Litres
Form:	Clear Liquid
Colour:	clear colourless liquid
Odour:	Characteristic
Solubility:	Miscible with water
Solubility in water:	Miscible with water
Density:	0.790
RELATIVE VAPOUR DENSITY (AIR=1):	2
VAPOUR PRESSURE (20 °C):	186
FLASH POINT (°C):	- 18
FLAMMABILITY LIMITS (%):	N AV
AUTOIGNITION TEMPERATURE (°C):	465
MELTING POINT/RANGE (°C):	N APP
pH:	Not Applicable
Partition Coefficient:	No data available
% VOLATILE BY VOLUME:	100%

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: Stable at room temperature and pressure **Conditions**

to avoid: Sources of heat and ignition , open flames. **Incompatible**

materials: unknown

Hazardous decomposition products: Carbon monoxide, carbon dioxide and organic complexes on incomplete burning or oxidation.

Hazardous reactions: Mixing with strong oxidising agents causes violent reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE EFFECTS

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Inhalation: Harmful if inhaled. Harmful by inhalation. Vapours will cause dizziness and drowsiness. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact: Harmful in contact with skin.

Ingestion: If swallowed, may cause lung damage on vomiting.

Eye contact: Moderate to severe eye irritant.

ACUTE TOXICITY

Inhalation: This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): $10.0 < LC_{50} \leq 20.0$ mg/L for vapours or $1.0 < LC_{50} \leq 5.0$ mg/L for dust and mist.

Acetone LC50 (Rat): > 20 mg/L (4 hrs)

Skin contact: This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): $1,000 < LD_{50} \leq 2,000$ mg/Kg bw.

Ingestion: This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): $LD_{50} > 2,000$ mg/Kg bw.

Acetone LD50 (Rat): > 2000 mg/kg

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as not an aspiration hazard.

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Specific target organ toxicity (single exposure): This material has been classified as not a specific hazard to target organs by a single exposure.

CHRONIC TOXICITY

Mutagenicity: This material has been classified as not a mutagen.

Carcinogenicity: This material has been classified as not a carcinogen.

Reproductive toxicity (including via lactation): This material has been classified as not a reproductive toxicant.

Specific target organ toxicity (repeat exposure): This material has been classified as not a specific hazard to target organs by repeat exposure.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: No data available

Long-term aquatic hazard: No data available

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Ecotoxicity: Harmful to terrestrial species. Harmful to bees. Fish LC 50: > 1000 mg/L Algae EC 50: > 1000 mg/L Micro organisms EC50: > 1000 mg/L

Persistence and degradability: The product is readily biodegradable.

Bioaccumulative potential: Risk of bioaccumulation in an aquatic species is moderate.

Mobility: Mobile in soil. May leach to groundwater. If product enters soil, it will be highly mobile and may contaminate groundwater.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".



UN No: 1090

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Dangerous Goods Class:	3
Packing Group:	II
Hazchem Code:	•2YE
Emergency Response Guide No:	14
Limited Quantities	1 L
Proper Shipping Name:	ACETONE

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.



UN No:	1090
Dangerous Goods Class:	3
Packing Group:	II
Proper Shipping Name:	ACETONE

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

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UN No: 1090

DANGEROUS GOODS CLASS: 3

Packing Group: II

Proper Shipping Name: ACETONE

15. REGULATORY INFORMATION

THIS MATERIAL IS NOT SUBJECT TO THE FOLLOWING INTERNATIONAL AGREEMENTS:

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

THIS MATERIAL IS SUBJECT TO THE FOLLOWING INTERNATIONAL AGREEMENTS:

- Basel Convention (Hazardous Waste)
 - Basic solutions or bases in solid form

THIS MATERIAL/CONSTITUENT(S) IS COVERED BY THE FOLLOWING REQUIREMENTS:

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth): S5. Caution.

AICIS Status: AICS listed pure substance.

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16. OTHER INFORMATION

Reason for issue: 5 Yearly Revision

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.