

SAFETY DATA SHEET

Acetone

SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name: Acetone

Other Names: 2-Propanone; Dimethyl Ketone

Recommended Use: Solvent, Clensing product. Chemical raw material

Applicable in: Australia

Supplier: Melbourne Solvents (ABN 48611886590)

Address: 2/42-46 Hallam South Rd., Hallam, Victoria 3803, Australia

Telephone: + 61 3 97963300

Email Address: info@melbournesolvents.com.au

Emergency Phone Number: 000 Fire Brigade and Police (available in Australia only).

Poisons Information Centre: 13 11 26 (available in Australia only).

This Material Safety Data Sheet (SDS) is issued by the Supplier in accordance with National standards and guidelines from the Australian Safety and Compensation Council (ASCC, formerly National Occupational Health and Safety Commission - NOHSC). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its SDS by any other person or organization. The Supplier will issue a new SDS when there is a change in product specifications and/or ASCC standards, codes, guidelines, or Regulations.

SECTION 2: HAZARD IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE: Classified as **Hazardous** according to the criteria of the Australian Safety and Compensation Council ASCC (formerly NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition.

Acetone is **classified** as **Dangerous** Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

GHS Classification:

Flammable Liquid (category 2)
Serious eye damage/ eye irritation (category 2A)
Target Organ Systematic Toxicant – Single Exposure (category 3)

GHS LABEL ELEMENTS

Symbol (s)





Signal Word: Danger

Hazard Statements:

HAZARDS STATEMENT:

H225: Flammable liquid and vapor H319:

Causes serious eye irritation

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H336: May cause drowsiness and dizziness

PRECAUTIONARY STATEMENT(s)

Prevention

Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. - No Smoking.

P233: Keep container tightly closed.

P235: Keep cool

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/vapors/spray.

P264: Wash hands thoroughly after handling.

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

P281: Use personal protective equipment as required.

Response

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Response

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P353: IF IN EYES Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.

P312: Call a POISON CENTRE or doctor/physician if you feel unwell.

P322: Specific measures (see details on this label).

P321: Specific treatment (see details on label).

P332+P313: If Skin irritation occurs. Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P362: Take of contaminated clothing and wash before reuse.

P370 +P378: In case of fire: Use appropriate media for extinction.

Storage

Disposal

Disposal

P501: Dispose of contents and container to appropriate waste site of reclaimer in accordance with local and national regulations.

EC Hazards

EUH066: Repeated exposure may cause skin dryness or cracking.

Other Hazards which do not result in classification

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Classification of components according to GHS

Chemical name	Synonyms	CAS	Hazard Class (Category)	Hazard Statement	Conc.
Acetone		67-64-1	Flam. Liq., 3 Eye irrit. 2A STOT SE., 3	H225 H319 H336	>99.0 %W

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SECTION 4: FIRST AID MEASURES

Information:

Consult a physician. Show this safety data sheet to the doctor in attendance

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse

mouth with water. Consult a physician..

Eyes: Immediately flush eyes with large amounts of water for at least 15minutes while holding

eyelids open. Transport to the nearest medical facility for additional treatment.

Skin: Remove contaminated clothing, wash off with plenty of water and soap. Consult a

physician if any symptoms arise.

Inhaled: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility

for additional treatment.

First Aid Facilities: Eye wash fountains and safety showers should be available for emergency use.

Advice to Doctor: The most important known symptoms and effects are described in the labelling and in

section 11

Most important symptoms and effects acute and delayed cough, nausea, vomiting, headache, unconsciousness, shortness of breath, dizziness,

narcosis.

Immediate medical attention, special treatment

Lung oedema, central nervous system effects, Prolonged skin contact may degrease the

skin and produce dermatitis.

SECTION 5: FIRE FIGHTING MEASURES

Specific Hazards:

Under conditions giving incomplete combustion, hazardous gases

produced may consist of: carbon monoxide (CO) carbon dioxide (CO2)

Combustion gases of organic materials must in principle be graded

as inhalation poisons

Vapour is heavier than air and can travel considerable distance to a

source of ignition and flashback

Vapours may form explosive mixtures with air

Suitable extinguishing media: Preferably; Alcohol resistant foam, water spray, polyvalent foam, BC

powder, carbon dioxide.

Unsuitable extinguishing mediaDo not use a solid water stream as it may scatter and spread fire.

Special protective precautions and equipment for fire fighters:

Wear full protective clothing and self-contained breathing apparatus.

Other advice Cool containers / tanks with water spray. Dike and collect water used

to fight fire. Water run-off can cause environmental damage. Keep

people away from and upwind of fire.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see chapter 8 of this Material Safety Data Sheet.

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.

Environmental procedures

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

Methods and material for containment and cleaning up.

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section

Additional advice

: Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained. The vapor is heavier than air, spreads along the ground and distant ignition is possible. See Chapter 13 for information on disposal. For guidance on selection of personal protective equipment see chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see chapter 13 of this Material Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away

from sources of ignition - No smoking . Take measures to prevent the build up of

electrostatic charge.

Refer to guidance under handling section.

Conditions for safe storage, including any incompatibilities

Store in cool place. 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. Handle open containers with care.

Unsuitable material Synthetic material

Suitable material

Incompatible material Oxidizing agents, reducing agents, (strong) acids, (strong) bases, halogens and

amines.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

Material	Туре	ppm	mg/m3
Acetone	STEL	750	2400
Acetone	TWA	500	1800

Biological Exposure Index (BEI):

No data available

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ENGINEERING CONTROLS

Provide sufficient ventilation to keep airborne levels below the exposure limits. Ventilation: Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:1997: Classification of hazardous areas - Examples of area classification - General, for fume formation concerning ventilation requirements. Appropriate The level of protection and types of controls necessary will vary depending upon **Engineering Controls:** potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Use sealed systems as far as possible. Firewater monitors and deluge systems are recommended. Eye washes and showers for emergency use. **PERSONAL PROTECTION Hand Protection** Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739, AS/NZS:2161) made from the following materials may provide suitable chemical protection: Longer term protection: Viton. Incidental contact/Splash protection: Nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. **Skin Protection:** Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance. **Eye Protection:** Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.. If engineering controls do not maintain airborne concentrations to a level which is Respiratory Protection: adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for organic gases and vapours [Type A boiling point > 65°C (149°F)] meeting EN14387. Where respiratory protective equipment is required, use a fullface mask. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Chemical resistant gloves/gauntlets, boots, and apron. Where risk of splashing or **Body protection:** in spillage clean up, use chemical resistant one-piece overall with integral hood.

Wear antistatic and flame retardant clothing.

Smoking must be prohibited in all areas where this product is used - see safety **Smoking & Other Dusts**

information on flammability.

Thermal Hazards Not Applicable

> Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Examples of

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sources of recommended exposure measurement methods are given below or contact the supplier.

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapor.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

AppearanceColourless clear liquid

Odour Aromatic odour. Sweet odour. Fruity odour. **Odour Threshold:** 306-653ppm (737-1574 mg/dm³)

Molecular weight: 58.08g/mol Solubility in Water Soluble

Relative Density @ 20°C 0.791-0.793 kg/m3 Relative evaporation rate (butyl acetate =1) 6

Relative evaporation rate (ether = 1) 2

Melting Point: -95°C

Vapour Pressure 247 hPa at 20°C, 828 hPa at 50 °C

Vapour Density 2.0 (Air=1) @ 20°C

Flash Point -18°C

Auto-ignition Temperature 465°C

Flammable Limits UEL Upper explosion limit 12.6% (V) Flammable Limits LEL Lower explosion limit 2.8% (V)

Boiling Point / Range: 56°C @ 1013hPa

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Unstable under exposure to light otherwise stable under normal conditions.

Incompatible Materials: Strong acids, strong bases.

Conditions to avoid: Direct sunlight, heat, sparks, flame and build-up of static electricity.

Hazardous Decomposition

Products:

Thermal decomposition may result in the release of toxic and/or irritating fumes

including carbon monoxide and carbon dioxide.

Hazardous Reactions: Hazardous polymerization will not occur. Vapors may form explosive mixture with air.

SECTION 11: TOXICOLOGICAL INFORMATION

LD50 Oral Rat: 5800 mg/kg

LD50 Dermal Rabbit: 20000 mg/kg

LC50 Inhalation Rat (mg/L): 71 mg/L/4hr

LC50 Inhalation Rat (ppm): 30000 ppm/L/4hr

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Causes serious eye irritation

Germ cell mutagenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): May cause drowsiness or dizziness

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

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Potential adverse human health effects and symptoms: Not classified

Symptoms/Injuries after inhalation: EXPOSURE TO HIGH CONCENTRATIONS: Feeling of weakness, irritation of the respiratory tract, nausea, vomiting, headache, central nervous system depression, dizziness, narcosis, excited/restless, drunkenness, disturbed motor response, respiratory difficulties, disturbances of concentration.

Symptoms/Injuries after skin contact: ON CONTINUOUS EXPOSURE/CONTACT: Dry skin, cracking of the skin.

Symptoms/Injuries after eye contact: Irritation of the eye tissue.

Symptoms/Injuries after ingestion: Dry/sore throat. Risk of aspiration pneumonia. Symptoms similar to those listed under inhalation. AFTER ABSORPTION OF HIGH QUANTITIES: Irritation of the gastric/intestinal mucosa. Change in the heamogramme/blood composition. Change in urine output. Affection of renal tissue. Enlargement/affection of the liver.

Symptoms/Injuries after intravenous administration: Not available.

Chronic symptoms: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin, skin rash/inflammation, dry/sore throat, nausea, feeling of weakness, loss of weight, possible inflammation of the respiratory tract.

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity: Not considered to be harmful to fishes, invertebrates or plankton. Inhibits activated sludge

and considered harmful to algae.

Persistence and Degradability:

Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under

anaerobic condition.

Mobility: No (test) data available

Note This substance is not considered to be persistent, bio accumulating nor toxic (PBT), not very

persistent nor bio accumulating. Avoid release to the environment.

SECTION 13: DIPOSAL CONSIDERATIONS

Dispose of waste according to federal, EPA, state and local regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name:
UN number:
DG Class:
Subsidiary Risk 1:
Acetone
1090
3 Flammable
None Allocated

Packaging Group: II
HAZCHEM code: 2YE
Marine Pollutant: No

Special Precautions for User: Refer to incompatibilities in section 7 and stability and reactivity

information in section 10.

Additional Transport requirements: Ni

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SECTION 15: REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Chemical inventory status

Listed in AICS, DLS, INV (CN), ENCS (JP), TSCA, EINECS, KECI (KR) and PICCS (PH)

SECTION 16: OTHER INFORMATION

For further information on this product, please contact: Melbourne Solvents (ABN 48611886590) 2/42-46 Hallam South Road, Hallam, Victoria 3803, Australia.

Phone: +61 3 97963300

ADDITIONAL INFORMATION

Australian Standards References:

AS 1020 The Control of undesirable static electricity. AS 1076 Code of Practice for selection, installation and maintenance of electrical apparatus and associated equipment for use in explosive atmospheres (other than mining applications) -Parts 1 to 13. AS/NZS 1336 Recommended Practices for Occupational Eye Protection Selection, Use and Maintenance of Respiratory Protective Devices AS/NZS 1715 AS/NZS 1716 Respiratory Protective Devices The Storage and Handling of Flammable and Combustible Liquids. AS 1940 Industrial Safety Gloves and Mittens (excluding electrical and medical gloves) AS 2161 AS 2380 Electrical equipment for explosive atmospheres - Explosion Protection Techniques (Parts 1

to 9).

AS 3000 Electrical installations (known as the Australian/New Zealand Wiring Rules).

Other References:

NOHSC:2011(2003) National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition, April

2003, National Occupational Health and Safety Commission.

NOHSC: 2012 National Code of Practice for the Labeling of Workplace Substances, March 1994, Australian

(1994) Government Publishing Service, Canberra.

NES National Occupational Exposure Standards for workplace Atmospheric Contaminants (NES)

Australian Safety and Compensation Council, ASCC (Formerly NOHSC) 1995 as amended.

ADG Code 6th Australian Dangerous Goods Code 6th Edition

Edition

AUTHORISATION

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END OF SDS

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