

ACETONE

MATERIAL SAFETY DATA SHEET

MSDS No:	1.1	QUICK SMART PRODUCTS
Product Name:	ACETONE	53 ASSEMBLY DRIVE
Manufacturers Code:	ACE25	TULLAMARINE VIC 3043
Date:	7 Feb 2007	(03) 9338 6655 (BH) (03) 9336 7945 (AH)

HAZARDOUS according to criteria of Worksafe Australia.

TRADE NAME	Acetone
SHIPPING NAME	Acetone
OTHER NAME	Dimethyl Ketone, 2-Propanone,
U.N. NO.	1090
PACKAGING GP	II
DG CLASS	3
SUB RISK	None Allocated
HAZCHEM	2(Y)E
POISON SCHEDULE	S5

USES

Solvent in the following applications: lacquers, lacquer thinners, liquid printing inks, nail polish removers, filling of acetylene cylinders, polyester resins, bituminous paints, PVC cloth manufacture. Raw Material for the manufacture of methyl isobutyl ketone, diacetone alcohol, hexylene glycol and fine chemicals.

PHYSICAL DESCRIPTION / PROPERTIES

Appearance odour	Clear colourless liquid, pungent odour
Melting Point	-94.7C
Boiling Point	56.2C
Specific Gravity (20C)	0.79 @ 20C
Vapour Density (air = 1)	2,0
Vapour Pressure (20C)	24.7 @ 20C
Flash Point (Open Cup)	-18C
Flammability Limits % LEL	2.6%
Flammability Limits % UEL	13%
Solubility in water	Soluble in water.

OTHER PROPERTIES

Autoignition Temp	485C
Formulae	CH ₃ COCH ₃

INGREDIENTS

Chemical Name	CAS Number	Proportion
Acetone	67-64-1	>99.5%

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Other ingredients not considered hazardous by Worksafe Australia to 100%

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HEALTH EFFECTS

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

ACUTE EFFECTS -

- SWALLOWED:** Minimal toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema.
- EYE:** Irritating and will injure eye tissue if not removed promptly.
- SKIN:** Frequent or prolonged contact may defat the skin, leading to discomfort and dermatitis. Low order of toxicity.
- INHALED:** Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anaesthetic and may have other central nervous system effects.

FIRST AID

- SWALLOWED:** If conscious immediately rinse mouth with water & give water to drink. Do not induce vomiting. Seek medical assistance.
- EYE:** Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance.
- SKIN:** Wash with soap & water. Remove contaminated clothing & wash before re-use. Seek medical assistance.
- INHALED:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured ensure airways are clear. If breathing has stopped apply artificial respiration at once. Seek medical assistance.

ADVICE TO DOCTOR

Treat symptomatically.

EXPOSURE STANDARDS

TWA = 1195 mg/m³ (500ppm)

STEL = 2380 mg/m³ (1,000ppm)

As published by the National Occupational Health and Safety Commission (Worksafe Australia).

Exposure standard (TWA) is the time-weighted average airborne concentration over an 8 hour working day for a five day working week over an entire working life, According to current knowledge this concentration should not cause adverse health effects nor cause undue discomfort to nearly all workers.

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ENGINEERING CONTROLS

Provide sufficient ventilation to maintain air concentration below the recommended exposure standards. This can be achieved via process enclosures, local exhaust ventilation or while wearing organic vapour respirator. Keep containers closed when not in use.

PERSONAL PROTECTION

Avoid skin and eye contact and inhalation of vapours. Wear protective clothing, chemical safety goggles or face shield and nitrile rubber gloves. Respiratory protection is required if there is a risk of exposure to vapour or fumes. Use an approved half face filter respirator suitable for organic vapours meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Use with adequate ventilation. Always wash hands before smoking, eating, drinking or using the toilet.

FLAMMABILITY

Flammable liquid. Avoid heat and ignition sources. Earth all containers to reduce the possibility of sparks. Use in a well ventilated area.

STORAGE AND TRANSPORT

Classified as a Class 3 Flammable Liquid Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Store away from sources of heat or ignition. Store in a cool place away from direct sunlight. Keep containers securely sealed and protected against physical damage.

SPILLS

Eliminate all ignition sources. Wear proper protective equipment. Contain and absorb using sand, earth or other non-combustible material. Stop spill at source if possible. Prevent from entering drains, sewers, streams or other bodies of water. Wash down area with water. If contamination of sewers or waterways has occurred advise the local emergency services. Transfer spilled material into clean labelled container for disposal.

DISPOSAL

Dispose through a licensed waste processing company. Refer to State Land Waste Management Authority.

FIRE / EXPLOSION HAZARDS

Flammable liquid. Avoid heat and sources of ignition, Prevent build-up of flammable vapours. Can react vigorously with oxidising materials.

EXTINGUISHING MEDIA: Water fog or fine spray, alcohol resistant foam. carbon dioxide or dry chemical powder. Use water spray or fog to keep fire exposed containers cool. Fire Fighters to wear self-contained breathing apparatus.

ENVIRONMENTAL IMPACT

Avoid contaminating waterways.

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TOXICITY

ORAL LD50 (rat): 5800 mg / kg.
INHALATION LC50 (rat): 50, 100 mg / m³ / 8hrs
DERMAL LD50 (rabbit): 20,000 mg / kg

Risk Statement: R11 Highly Flammable.
R36 Irritating to eyes.

Safety Statement: S9 Keep container in a well ventilated place. S16 Keep away from sources of ignition. S23 Do not breath vapour. S25 Avoid contact with eyes. S33 Take precautionary measures against static discharges.

CONTACT POINT

Contact: WALTER DAY