

# ACETONE

## MATERIAL SAFETY DATA SHEET

MSDS No:		<b>QUICK SMART PRODUCTS</b>
Product Name:	ACETONE	<b>53 ASSEMBLY DRIVE</b>
Manufacturers Code:	ACE1, ACE5, ACE25, ACE200	<b>TULLAMARINE VIC 3043</b>
Date:	October 2011	ABN: 40 959 725 049 <b>(03) 9338 6655 (BH)</b> <b>(03) 9336 7945 (AH)</b>

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** ACETONE  
**Company Name:** QUICK SMART PRODUCTS  
**Address:** 53 Assembly Drive  
Tullamarine Vic 3043  
**Telephone/Fax:** (03) 9338 6655 (BH) Poisons Information Centre 131126 (AH) Fax: (03) 9335 2598  
**Recommended Use:** Coatings formulations, laboratory reagent, cleaning fluids, etc.

### 2. HAZARDS IDENTIFICATION

**Statement of Hazardous/Dangerous Nature:** HAZARDOUS SUBSTANCE.  
DANGEROUS GOODS  
Classified as Hazardous according to the criteria of NOHSC Australia.  
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)

**Shipping Name:** ACETONE  
**Other Names:** 2-propanone, dimethyl ketone  
**D.G. Classification:** 3  
**Poisons Schedule:** 5  
**Hazard Category:** Xi – Irritant  
**Risk Phrases:** R11 – Highly flammable  
R36 – Irritating to eyes  
R66 – Repeated contact may cause skin dryness or cracking  
R67 – Vapours may cause drowsiness or dizziness  
**Safety Phrases:** S2 – Keep out of the reach of children  
S9 – Keep container in a well ventilated place  
S16 – Keep away from sources of ignition – No smoking  
S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity:	CAS No	Proportion (%v/v)
Acetone	67-64-1	>99.9
Water	7732-18-5	<0.5

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#### 4. FIRST AID MEASURES

Poison Information Centres (131126) in each State Capital City can provide additional assistance for scheduled poisons. Show this safety data sheet to the doctor in attendance.

<b>Inhalation:</b>	Using proper respiratory protection, remove victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.
<b>Skin Contact:</b>	Remove contaminated clothing and wash affected skin with large amounts of water and soap if available. Seek medical attention for skin irritations. Wash contaminated clothing before re-use.
<b>Eye Contact:</b>	If in eyes, hold eyes open and flush with copious amounts of water or saline solution for at least 15 minutes or until irritation subsides. Seek immediate medical attention.
<b>Ingestion:</b>	If swallowed DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek immediate medical attention.
<b>First Aid Facilities:</b>	Provide eye baths and safety showers.
<b>Advice to Doctor:</b>	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 fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

<b>Suitable Extinguishing Media:</b>	Water fog or fine spray mist.
<b>Specific Hazards:</b>	Carbon monoxide and/or carbon dioxide may be evolved.
<b>Special Protective Equipment for Fire Fighters:</b>	Wear self-contained breathing apparatus (SCBA) and full protective suit.
<b>Hazchem Code:</b>	●2YE

#### 6. ACCIDENTAL RELEASE MEASURES:

<b>Personal Precautions:</b>	Evacuate personnel to safe areas. Remove all sources of ignition in the surrounding area if safe to do so. Wear self-contained breathing apparatus and protective suit. Shut off leaks if possible without personal risk. Keep people away from and upwind of spill/leak.
<b>Methods and Materials for Containment:</b>	<b>Major Land Spill</b> <ul style="list-style-type: none"><li>• Eliminate sources of ignition</li><li>• Warn occupants of downwind areas of possible fire and explosion hazard.</li><li>• Prevent liquid from entering sewers, watercourses, or low-lying areas.</li><li>• Keep the public away from the area.</li><li>• Shut off the source of the spill if possible and safe to do so.</li><li>• Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.</li><li>• Take measures to minimise the effect on the ground water.</li><li>• Contain the spilled liquid with sand or earth.</li></ul>

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- 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 downward 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

<b>Precautions for Safe Handling:</b>	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).
<b>Conditions for Safe Storage:</b>	Store 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.
<b>Incompatible Materials:</b>	Painted surfaces, natural rubber, polystyrene, EDPM. Neoprene.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>National Exposure Standards:</b>	The Time Weighted Average concentration (TWA) for this product is: 1185mg/m <sup>3</sup> (500ppm). Vapour Threshold: 110-140ppm, which means the highest allowable exposure concentration in an eight hour day for a five day working week. The Short Term Exposure Limited (STEL) is: 2375mg/m <sup>3</sup> (1000ppm), which is the maximum allowable exposure concentration at any time.
<b>Biological Limit Values:</b>	No biological limit allocated.
<b>Personal Protection Equipment:</b>	
<b>Respiratory Protection:</b>	In instances where concentrations are likely to 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.
<b>Eye Protection:</b>	Always use safety glasses or a face shield when handling this product.
<b>Skin/Body Protection:</b>	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.

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**Engineering Controls:** 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.

### 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	0.792
Vapour Pressure @ 20°C:	kPa	180 mmHg
Explosive Limits (LEL – UEL):	%	2.55 – 13.0
Vapour Density @ 20°C:	kPa	Not Available
Autoignition Temp:	°C	465
Viscosity @ 20°C:	cSt	Not Available
Percent Volatiles:	%	100
Solubility with Water:	% w/w	Miscible with Water

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under room temperature and pressure.
<b>Conditions to Avoid:</b>	Sources of heat and ignition, open flames.
<b>Hazardous Decomposition Products:</b>	Carbon oxides on burning.
<b>Hazardous Reactions:</b>	Strong oxidising agents, strong alkalis and strong mineral acids and bromine.
<b>Hazardous Polymerisation:</b>	Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### Acute Effects:

**Ingestion:** This material will cause irritation to the throat, trachea and respiratory tract. 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. Most subjects exposed to vapour concentrations of 500-1000ppm experience irritation to the eyes.

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**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.

**Inhalation:** Vapour concentrations above 500ppm are irritating to the nose and throat. High vapour concentrations (above 1000ppm) result in narcotic effects including possible headaches, dizziness, loss of coordination, nausea, loss of appetite and possibly loss of consciousness.

**Chronic Effects:** Repeated or prolonged skin contact with the liquid may cause irritant contact dermatitis.

**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 aggravate pre-existing skin, respiratory, blood, liver, kidney and reproductive disorders in humans.

**Toxicological Information:** Oral LD<sub>50</sub>: Oral: 5.8 – 8.4 g/kg (rat); Dermal: 20 g/kg (rabbit)  
Dermal TC<sub>L0</sub>: Inhalation: LC<sub>50</sub>: 32000 ppm for 4 hours (rat)

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** **Aquatic Toxicity:**  
Fish Toxicity (rainbow trout, goldfish, bluegill): LC<sub>50</sub>(96hr): 5000 – 13000 mg/l  
Daphnia Magna EC<sub>50</sub> (24hr): > 10000 mg/l  
Blue-green Algae (Toxicity threshold 7-8 days): 530 mg/l  
Green Algae (Toxicity threshold 7-8 days): 7500 mg/l

**Persistence/Degradability:** 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 volatilise at a slow but significant rate. Biodegradation will occur in surface water.

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

### 13. DISPOSAL CONSIDERATIONS

**Disposal Method:** 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 is ashless and can be burned directly in appropriate equipment.

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### 14. TRANSPORT INFORMATION

**Proper Shipping Name:** ACETONE

**UN Number:** 1090

**Class:** 3

**Sub. Risk:** None

**Packing Group:** II

**Hazchem Code:** ●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

**Poisons Schedule:** 5

**Inventory:** AICS

**Status:** Listed

### 16. OTHER INFORMATION

**Contact Person/Point:** Technical Information: (03) 9338 6655

**Date of Preparation or last revision of MSDS:** MSDS reviewed: 10 October 2011

*This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.*

END OF MSDS