

# ACETONE

## SAFETY DATA SHEET

MSDS No:		<b>QUICK SMART PRODUCTS</b>
Product Name:	ACETONE	<b>53 ASSEMBLY DRIVE</b>
Manufacturers Code:	ACE1, ACE5, ACE25	<b>TULLAMARINE VIC 3043</b>
Date:	December 2016	ABN: 40 959 725 049
		Ph: (03) 9338 6655 (BH) Fax: (03) 9335 2598
		Email: <a href="mailto:gsmart@bigpond.net.au">gsmart@bigpond.net.au</a>
		Web: <a href="http://www.quicksmartproducts.com.au">www.quicksmartproducts.com.au</a>

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	ACETONE
<b>Company Name</b>	QUICK SMART PRODUCTS
<b>Address</b>	53 Assembly Drive Tullamarine Vic 3043
<b>Telephone</b>	(03) 9338 6655 (BH) Poisons Information Centre 131126 (AH) (03) 9336 7945 (AH)
<b>Recommended Use</b>	Solvent, cleansing product

### 2. HAZARDS 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] 3<sup>rd</sup> Edition.

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

#### GHS Classification

#### Hazard Categories

Flammable Liquids: Category 2  
Serious Eye Damage/Irritation: Category 2A  
Target Organ Systematic Toxicant - Single Exposure: Category 3

#### GHS Label Elements

##### Signal Word

DANGER

##### Symbol(s)



##### Hazard Statements

H225: Flammable liquid and vapour  
H319: Causes serious eye irritation  
H336: May cause drowsiness and dizziness

##### Precautionary Statements

###### 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/ventilation/lighting equipment  
P242: Use only non-sparking tools  
P243: Take precautionary measures against static discharge  
P261: Avoid breathing mist, vapours, spray  
P264: Wash thoroughly after handling  
P271: Use only outdoors or in a well-ventilated area  
P273: Avoid release to the environment  
P280: Wear protective gloves/eye protection/face protection  
P281: Use personal protective equipment as required.

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**Response**

P303+P361+P353: If ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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

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

P321: Specific treatment (see details on label)

P322: Specific measures (see details on this label)

P331: Do NOT induce vomiting

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

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

P362: Take off contaminated clothing and wash before reuse

P363: Wash contaminated clothing before reuse

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

**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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Classification of Components According to GHS

Chemical Name	CAS No.	Hazard Class	Hazard Statement	Concentration
Acetone	67-64-1	Flam. Liq., 3 Eye irrit. 2A STOT SE., 3	H225 H319 H336	>99.0% W

### 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 15 minutes 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.

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### Immediate Medical Attention, Special Treatment

Lung oedema, central nervous system effects, Prolonged skin contact may degrease the skin and produce dermatitis.

## 5. FIRE FIGHTING MEASURES

<b>Specific Hazards</b>	Under conditions giving incomplete combustion, hazardous gases produced may consist of: carbon monoxide (CO) carbon dioxide (CO <sub>2</sub> ) 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.
<b>Suitable Extinguishing Media</b>	Preferably: alcohol resistant foam, water spray, polyvalent foam, BC powder, carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special Protective Precautions and Equipment for Fire Fighters</b>	Wear full protective clothing and self-contained breathing apparatus.
<b>Other Advice</b>	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.

## 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	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.
<b>Environmental Procedures</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Methods and Materials for Containment and Cleaning Up</b>	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 13).
<b>Additional Advice</b>	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 vapour 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 Safety Data Sheet. For guidance on disposal of spilled material see chapter 13 of this Safety Data Sheet.

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### 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	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.
<b>Conditions for Safe Storage, Including any Incompatibilities</b>	Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.
<b>Unsuitable Material</b>	Synthetic material.
<b>Incompatible Material</b>	Oxidizing agents, reducing agents, (strong) acids, (strong) bases, halogens and amines.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

#### Occupational Exposure Limits

Material	Type	ppm	mg/m <sup>3</sup>
Acetone	STEL	750	2400
Acetone	TWA	500	1800

**Biological Exposure Index (BEI)** No biological limit allocated.

#### Engineering Controls

##### Ventilation

Provide sufficient ventilation to keep airborne levels below the exposure limits. 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 further information concerning ventilation requirements.

##### Appropriate Engineering Controls

The level of protection and types of controls necessary will vary depending upon 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.

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<b>Eye Protection</b>	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.
<b>Respiratory Protection</b>	If engineering controls do not maintain airborne concentrations to a level which is 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 full-face 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.
<b>Body Protection</b>	Chemical resistant gloves/gauntlets, boots, and apron. Where risk of splashing or in spillage clean up, use chemical resistant one-piece overall with integral hood. Wear antistatic and flame retardant clothing.
<b>Smoking &amp; Other Dusts</b>	Smoking must be prohibited in all areas where this product is used - see safety information on flammability.
<b>Thermal Hazards</b>	Not applicable.
<b>Monitoring Methods</b>	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 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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Colourless clear liquid
<b>Odour</b>	Aromatic odour. Sweet odour. Fruity odour
<b>Odour Threshold</b>	306-653ppm (737-1574 mg/dm <sup>3</sup> )
<b>Molecular Weight</b>	58.08g/mol
<b>Solubility in Water</b>	Soluble
<b>Density</b>	786 kg/m <sup>3</sup>
<b>Relative Density</b>	0.79g/cm <sup>3</sup>
<b>pH Value</b>	7
<b>Relative Evaporation Rate (butyl acetate=1)</b>	6
<b>Relative Evaporation Rate (ether=1)</b>	2
<b>Melting Point</b>	-95°C
<b>Vapour Pressure</b>	247 hPa at 20°C, 828 hPa at 50°C

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<b>Vapour Density</b>	2.0 (Air=1) @ 20°C
<b>Flash Point</b>	-18°C
<b>Auto Ignition Temp</b>	465°C
<b>Flammable Limits</b>	UEL: 12.6% (V) LEL : 2.8% (V)
<b>Boiling Point/Range</b>	56°C @ 1013 hPa

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Unstable under exposure to light otherwise stable under normal conditions.
<b>Incompatible Materials</b>	Strong acids, strong bases.
<b>Conditions to Avoid</b>	Direct sunlight, heat, sparks, flame and build-up of static electricity.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Hazardous Reactions</b>	Hazardous polymerization will not occur. Vapours may form explosive mixture with air.

### 11. TOXICOLOGICAL INFORMATION

<b>LD50 Oral Rat</b>	5800 mg/kg
<b>LD50 Dermal Rabbit</b>	20000 mg/kg
<b>LC50 Inhalation Rat (mg/L)</b>	71 mg/L/4hr
<b>LC50 Inhalation Rat (ppm)</b>	30000 ppm/L/4hr
<b>Skin Corrosion/Irritation</b>	Not classified.
<b>Serious Eye Damage/Irritation</b>	Causes serious eye irritation.
<b>Germ Cell Mutagenicity</b>	Not classified.
<b>Reproductive Toxicity</b>	Not classified.
<b>Specific Target Organ Toxicity (Single Exposure)</b>	May cause drowsiness or dizziness.
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified.
<b>Aspiration Hazard</b>	Not classified.
<b>Potential Adverse Human Health Effects and Symptoms</b>	Not classified.
<b>Symptoms/Injuries after Inhalation</b>	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.

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<b>Symptoms/Injuries after Skin Contact</b>	ON CONTINUOUS EXPOSURE/CONTACT: Dry skin, cracking of the skin.
<b>Symptoms/Injuries after Ingestion</b>	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 haemogramme/blood composition. Change in urine output. Affection of renal tissue. Enlargement/affection of the liver.
<b>Symptoms/Injuries after Intravenous Administration</b>	Not available.
<b>Chronic Symptoms</b>	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.

### 12. ECOLOGICAL INFORMATION

<b>Eco-toxicity</b>	Not considered to be harmful to fishes, invertebrates or plankton. Inhibits activated sludge and considered harmful to algae.
<b>Persistence and Degradability</b>	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic condition.
<b>Mobility</b>	No (test) data available.
<b>Note</b>	This substance is not considered to be persistent, bio accumulating nor toxic (BT), not very persistent nor bio accumulating. Avoid release to the environment.

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal Methods</b>	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.
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### 14. TRANSPORT INFORMATION

<b>Proper Shipping Name</b>	Acetone
<b>UN number</b>	1090
<b>DG Class</b>	3 Flammable
<b>Subsidiary Risk 1</b>	Non Allocated
<b>Packaging Group</b>	II
<b>Hazchem Code</b>	2YE
<b>Marine Pollutant</b>	No
<b>Special Precautions for User</b>	Refer to incompatibilities in Section 7 and stability and reactivity information in Section 10.
<b>Additional Transport Requirements</b>	Nil

### 15. REGULATORY INFORMATION

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

<b>Chemical Inventory Status</b>	Listed in AICS (AUST), DLS, INV (CN), ENCS (JP), TACA, EINECS, KECI (KR) and PICCS (PH)
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### 16. OTHER INFORMATION

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

**Date of Preparation or last revision of SDS** SDS reviewed: 14 December 2016

#### Abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road & Rail
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>CAS Number</b>	Chemical Abstracts Service Registry Number
<b>GHS</b>	Globally Harmonised System of Classification and Labelling
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters which gives information to emergency services
<b>IATA</b>	International Air Transport Association
<b>IMDG</b>	International Maritime Dangerous Goods
<b>LEL</b>	Lower Explosion Limit
<b>mg/m<sup>3</sup></b>	Milligrams per Cubic Metre
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>ppm</b>	Parts Per Million
<b>STEL</b>	Short Term Exposure Limit
<b>SDS</b>	Safety Data Sheet
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons
<b>TWA</b>	Time Weighted Average
<b>UEL</b>	Upper Explosion Limit

*This SDS 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 SDS in the context of how the product will be handled in the workplace and in conjunction with other materials. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material or from any failure to adhere to recommendations. 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 SDS