

ISOPROPYL ALCOHOL

SAFETY DATA SHEET

MSDS No:		QUICK SMART PRODUCTS
Product Name:	ISOPROPYL ALCOHOL	53 ASSEMBLY DRIVE
Manufacturers Code:	IPA1, IPA5, IPA25	TULLAMARINE VIC 3043
Date:	November 2017	ABN: 40 959 725 049
		Ph: (03) 9338 6655 (BH) Fax: (03) 9335 2598
		Email: gsmart@bigpond.net.au
		Web: www.quicksmartproducts.com.au

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	ISOPROPYL ALCOHOL
Company Name:	QUICK SMART PRODUCTS
Address:	53 Assembly Drive Tullamarine Vic 3043
Telephone/Fax:	(03) 9338 6655 (BH) Poisons Information Centre 131126 (AH) (03) 9336 7945 (AH)
Recommended Use:	General Purpose Solvent

2. HAZARDS IDENTIFICATION

Hazard Classification	Hazardous Substance
Dangerous Goods Classification	Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
GHS Classification(s)	Flammable Liquids: Category 2 Serious Eye Damage/Irritation: Category 2A Specific Target Organ Toxicity (Single Exposure): Category 3

GHS Label Elements

Signal Word	DANGER
Symbol(s)	

Hazard Statements

H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Precautionary Statements

General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces. - No Smoking.
P233	Keep container tightly closed.
P261	Avoid breathing mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection/face protection.

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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+311	IF IN EYES: Rinse cautiously with water for several minutes. Get medical advice/attention.
P308+P314	If exposed or concerned: Get medical advice/attention if you feel unwell.

Storage

P403+P233 Store in a well ventilated place. Keep container tightly closed.

Disposal

P501 Dispose of contents/container in accordance with local regulations.

Risk Phrases:

R11 – Highly flammable
R36 – Irritating to eyes
R67 – Vapours may cause drowsiness and dizziness

Safety Phrases:

S2 – Keep out of the reach of children
S7 – Keep container tightly closed
S16 – Keep away from sources of ignition
S25/25 – Avoid contact with skin and eyes
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
Propan-2-ol (Isopropyl alcohol)	67-63-0	99-100%

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.

Description of necessary measures according to routes of exposure

Inhalation	Remove victim from exposure if safe to do so and into fresh air. If rapid recovery does not occur, seek immediate medical attention.
Skin Contact	Remove contaminated clothing and wash affected skin with soap and water. If signs of poisoning appear, treat as for inhalation. Wash contaminated clothing before re-use. Contaminated combustible material, e.g. clothing ignites more readily and burns fiercely.
Eye Contact	If in eyes, hold eyes open and flush with copious amounts of water or saline solution for at least 15 minutes. If redness, burning, blurred vision or swelling persists, obtain immediate medical attention.
Ingestion	If swallowed DO NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
First Aid Facilities	Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.

Most Important Symptoms & Effects, Both Acute & Delayed, Caused by Exposure

See Section 11 for more detailed information on health effects and symptoms.

Advice to Doctor Treat symptomatically.

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5. FIRE FIGHTING MEASURES

General Measures	Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
Extinguishing Media	Alcohol stable foam, water spray or fog. Dry chemical powder, carbon dioxide may be used for small fires only. Extinguishing media which must not be used for safety reasons : Do not use water jet.
Specific Hazards	Carbon monoxide and/or carbon dioxide may be evolved. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Special Protective Equipment for Fire Fighters	Wear self-contained breathing apparatus (SCBA) and full protective suit.
Specific Methods	Standard procedure for chemical fires. Water mist may be used to cool closed containers.
Hazchem Code	●2YE

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions	Evacuate personnel to safe areas. Remove all sources of ignition in the surrounding area. 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.
Environment Precautions	Prevent liquid from spreading and entering waterways using sand, earth or other appropriate barriers. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment. Spills can be converted to non-flammable mixtures by dilution with water.
Methods for Cleaning Up	For small spills (<1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (>1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Retain as contaminated waste. Allow residues to evaporate or use an appropriate absorbent material and dispose of safely.

7. HANDLING AND STORAGE

Precautions for Safe Handling and Storage	Use only in well ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Handle open containers in well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains. Do not eat, drink or smoke in contaminated areas. Before eating, drinking or smoking, remove contaminated clothing and wash hands. Do not store near strong oxidants.
Dispensing	Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.
Flammability	Highly flammable.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	National Occupational Exposure Limits:
ISOPROPYL ALCOHOL	983mg/m ³ (400ppm) TWA (8hr), 1230mg/m ³ (500ppm) STEL
Biological Limit Values	No biological limit allocated.
Personal Protection Equipment	
Respiratory Protection	In instances where concentrations are likely to exceed exposure limit, an approved organic vapour respirator (AS/NZS 1715 and 1716) should be worn.
Hand Protection	Use solvent resistant gloves (nitrile, PVC or neoprene).
Eye Protection	Wear safety goggles.
Protective Clothin	Use chemical resistant glove/gauntlets, boots and apron. Skin protection not ordinarily required beyond standard issued work clothes.
Engineering Controls	Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists. Keep containers closed when not in use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless Clear Liquid
Odour	Alcoholic
pH	N/A
Vapour Pressure (mmHg @ 20°C)	4.1 kPa
Vapour Density (air=1)	2 @ 20°C
Boiling Point (°C)	82-83
Freezing/Melting Point (°C)	-88
Solubility in Water	Miscible with water
Specific Gravity (g/ml @ 15°C)	0.78-0.79
Flashpoint (°C)	12 (Abel)
Flammability Limits (%)	2-12.0
Auto Ignition Temp (°C)	425
Percent Volatiles	100

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10. STABILITY AND REACTIVITY

Chemical Stability	Stable at normal conditions of use.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources.
Incompatible Materials	Strong oxidising agents, strong acids.
Hazardous Decomposition Products	Burning can produce carbon monoxide and/or carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute	
Swallowed	Low toxicity: LD50 > 200mg/kg, Rat.
Eyes	Irritating to eyes.
Skin	Low toxicity: LD50 > 200mg/kg, Rabbit. Not irritating to skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Inhaled	Low toxicity: LD50 > 20mg/8 hours, Rat. Inhalation of vapours or mists may cause irritation to the respiratory system. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
Chronic	Not a skin sensitiser, not mutagenic, not a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish : Low toxicity: LC/EC/IC50 > 100mg/l Aquatic Invertebrates : Low toxicity: LC/EC/IC50 > 1000mg/l Algae : Expected to have low toxicity: LC/EC/IC50 > 1000mg/l Microorganisms : Low toxicity: LC/EC/IC50 > 1000mg/l
Mobility	Miscible with water, if product enters soil it will be highly mobile and may contaminate groundwater.
Persistence/Degradability	Biodegradable, oxidises rapidly by photochemical reactions in air.
Bioaccumulation	Not expected to bioaccumulate significantly.

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13. DISPOSAL CONSIDERATIONS

Disposal Method Dispose of waste according to Federal, EPA, State and Local Regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION



Classified as a Dangerous Goods for transport (ADG, IMDG, IATA)

Proper Shipping Name ISOPROPANOL
UN Number 1219
Class 3
Packing Group II
Special Precautions for User None
Subsidiary Risk None allocated
Hazchem Code 2YE

15. REGULATORY INFORMATION

Australian Inventory of Chemical Substances (AICS)

Listed

AU Classification F - Flammable
Xi - Irritant
R11 – Highly flammable
R36 – Irritating to eyes
R67 – Vapours may cause drowsiness and dizziness

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

A poison schedule number has not been allocated to this product.

Dangerous Goods Initial Emergency Response Guide (SA HB76:2010)

16

16. OTHER INFORMATION

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

Date of Preparation or last revision of SDS SDS Revised: 2 November 2017

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Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ADG Code	Australian Code for the Transport of Dangerous Goods by Road & Rail
AICS	Australian Inventory of Chemical Substances
CAS Number	Chemical Abstracts Service Registry Number
EMS	Emergency Schedules
GHS	Globally Harmonised System of Classification and Labelling
HAZCHEM Code	Emergency action code of numbers and letters which gives information to emergency services
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
mg/m³	Milligrams per Cubic Metre
NOHSC	National Occupational Health and Safety Commission
ppm	Parts Per Million
STEL	Short Term Exposure Limit
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TWA	Time Weighted Average

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. 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