

ISOPROPYL ALCOHOL

MATERIAL SAFETY DATA SHEET

MSDS No:		QUICK SMART PRODUCTS
Product Name:	ISOPROPYL ALCOHOL	53 ASSEMBLY DRIVE
Manufacturers Code:	IPA1, IPA5, IPA20	TULLAMARINE VIC 3043
Date:	June 2011	(03) 9338 6655 (BH) (03) 9336 7945 (AH)

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) Fax: (03) 9335 2598
Recommended Use:	General Purpose Solvent

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)
Proper Shipping Name:	ISOPROPANOL (ISOPROPYL ALCOHOL)
UN No:	1219
D.G. Class:	3
Packing Group:	II
Hazchem Code:	2YE
Symbols:	F – Highly flammable Xi – Irritant
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%

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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.

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.
Advice to Doctor:	Treat as for excess consumption of alcoholic drink.

5. FIRE FIGHTING MEASURES

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.

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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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: ISOPROPYL ALCOHOL	National Occupational Exposure Limits: 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 Clothing:	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)

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Flammability Limits (%): 2-12.0

Auto Ignition Temp (°C): 425

Percent Volatiles: 100

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.

13. DISPOSAL CONSIDERATIONS

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

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14. TRANSPORT INFORMATION

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

Poisons Schedule: Not scheduled

AICS: Listed

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 MSDS: MSDS created: 30 June 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