1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Distributor
Axi-Kem Pty Ltd
54 Yambil Street
Griffith, NSW 2680
Phone: 02 6962 6455 (office hours)
Fax: 02 6962 6624
Email:info@axikem.com.au

Supplier
aiMix Chemicals Pty Ltd
52-54 Power St
St Marys, NSW 2760
Phone: 02 9623 3288 (office hours)
Fax: 02 9623 3655
Email: aimixchemicals@bigpond.com

Chemical nature: *ISOPROPANOL.*
Trade Name: **ISOPROPYL ALCOHOL**
Product Use: *Solvent Cleaner.*
Creation Date: **December, 2016**
This version issued: **December, 2022** *and is valid for 5 years from this date.*

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.



Signal Word
Danger

Hazard Classifications
Flammable Liquids - Category 2
Serious Eye Damage/Irritation - Category 2A
Specific Target Organ Toxicity (Single Exposure) - Category 3 Narcotic Effects

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

Prevention Precautionary Statements

P102	*Keep out of reach of children.*
P103	*Read label before use.*
P210	*Keep away from heat/sparks/open flames/hot surfaces. No smoking.*
P233	*Keep container tightly closed.*
P240	*Ground/bond container and receiving equipment.*
P241	*Use explosion-proof electrical, ventilating, lighting and all other equipment.*
P242	*Use only non-sparking tools.*
P243	*Take precautionary measures against static discharge.*
P261	*Avoid breathing dust, fume, gas, mist, vapours or spray..*
P264	*Wash hands, face and all exposed skin thoroughly after handling.*
P271	*Use only outdoors or in a well-ventilated area.*
P280	*Wear protective clothing, gloves, eye/face protection and suitable respirator.*

Response Precautionary Statements

P101	*If medical advice is needed, have product container or label at hand.*
P303+P361+P353	*IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. 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.*
P337+P313	*If eye irritation persists: Get medical advice/attention.*
P370+P378	*In case of fire: Use Use carbon dioxide, dry chemical, foam, water fog or water mist. Alcohol resistant foam is preferred. If not available fine water spray/mist can be used for extinction.*

Storage Precautionary Statements

P403+P233	*Store in a well-ventilated place. Keep container tightly closed.*
P403+P235	*Store in a well-ventilated place. Keep cool.*
P405	*Store locked up.*

Disposal Precautionary Statements

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Poison Schedule: *Not Applicable*

DANGEROUS GOOD CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

DANGEROUS GOOD CLASS: 3

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	*CAS NO*	*PROPORTION*
2-Propanol	*67-63-0*	*100 % (w/w)*
Ingredients determined to be Non-Hazardous		*Balance*

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: *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. Seek medical advice if effects persist.*

Skin Contact: *If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap*

if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Eye contact: *If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.*

Ingestion: *Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.*

Notes to physician: *Treat symptomatically.*

5. FIRE FIGHTING MEASURES

HAZCHEM CODE 2YE

Suitable extinguishing media: *If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, dry agent (carbon dioxide, dry chemical powder).*

Specific hazards: *Highly flammable liquid and vapour. May form flammable vapour mixtures with air.*

Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

Fire fighting further advice: *Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.*

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: *16*

7. HANDLING AND STORAGE

Handling: *Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.*

Storage: *Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.*

This material is classified as a Class 3 Flammable Liquid as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		*STEL*		*NOTICES*
	ppm	*mg/m3*	*ppm*	*mg/m3*	
Isopropyl alcohol	*400*	*983*	*500*	*1230*	*-*

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: *As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.*

Engineering Measures: *Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.*

Personal Protection Equipment: *SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES, RESPIRATOR.*

Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: *Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.*

9. PHYSICAL AND CHEMICAL PROPERTIES

Base Units:	*Litres*
Form:	*Clear Liquid*
Colour:	*Colourless*
Odour:	*Characteristic*

Solubility in water:	*Completely miscible*
Specific Gravity (20 °C):	*0.78 - 0.79 (20°C)*
Density:	*785 - 786 kg/m3 (20°C)*
Relative Vapour Density (air=1):	*2 (20°C)*
Vapour Pressure (20 °C):	*6,020 Pa (20°C)*
Flash Point (°C):	*12°C (Abel)*
Flammability Limits (%):	*2% (volume) - 12% (volume)*
Autoignition Temperature (°C):	*425°C (ASTM D-2155)*
Boiling Point/Range (°C):	*82 - 83°C*
Evaporation Rate (n-Butyl acetate=1):	*1.5 (ASTM D 3539, nBuAc=1)*
% Volatile by Volume:	*Volatile organic carbon content: 59.9 % (EC/1999/13)*

(Typical values only - consult specification sheet) N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: *This material is thermally stable when stored and used as directed.*

Conditions to avoid: *Elevated temperatures and sources of ignition.*

Incompatible materials: *Oxidising agents.*

Hazardous decomposition products: *Oxides of carbon and nitrogen, smoke and other toxic fumes.*

Hazardous reactions: *No known hazardous reactions.*

11. TOXICOLOGICAL INFORMATION

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

Acute Effects

Inhalation: *Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.*

Skin contact: *Contact with skin may result in irritation.*

Ingestion: *Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.*

Eye contact: *An eye irritant.*

Acute Toxicity

Inhalation: *This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L*

Skin contact: *This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg*

Ingestion: *This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg*

Corrosion/Irritancy: *Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes).*

Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: *Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.*

Aspiration hazard: *This material has been classified as non-hazardous.*

Specific target organ toxicity (single exposure): *This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in depression of the central nervous system.*

Chronic Toxicity

Mutagenicity: *This material has been classified as non-hazardous.*

Carcinogenicity: *This material has been classified as non-hazardous.*

Reproductive toxicity (including via lactation): *This material has been classified as non-hazardous.*

Specific target organ toxicity (repeat exposure): *This material has been classified as non-hazardous.*

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: *This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L*

Long-term aquatic hazard: *This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.*

Ecotoxicity: *No information available.*

Persistence and degradability: *No information available.*

Bioaccumulative potential: *No information available.*

Mobility: *No information available.*

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".



UN No: *1219* **Dangerous Goods Class:** *3* **Packing Group:** *II* **Hazchem Code:** *•2YE* **Emergency Response Guide No:** *16*

Proper Shipping Name: *ISOPROPANOL*

Segregation Dangerous Goods: *Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply.*

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.



UN No: *1219*
Dangerous Goods Class: *3*
Packing Group: *II*

Proper Shipping Name: *ISOPROPANOL*

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



UN No: *1219*
Dangerous Goods Class: *3*
Packing Group: *II*

Proper Shipping Name: *ISOPROPANOL*

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants)

The Rotterdam Convention (Prior Informed Consent)

International Convention for the Prevention of Pollution from Ships (MARPOL)

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

- *Wastes from the production, formulation and use of organic solvents*

This material/constituent(s) is covered by the following requirements:

- *All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).*

16. OTHER INFORMATION

Reason for issue: First issue

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.