

# SAFETY DATA SHEET

## Section 1: Identification of the Substance/Mixture and of the Supplier

**Product Name:** Isopropyl Alcohol  
**Proper Shipping Name**  
**Recommended use:**  
**Company Details** Biosymph Ltd  
**Address:** 2287 Kakaramea Road  
Hamilton. New Zealand  
**Telephone:** +64 7 829 8606 [8.00 am to  
4.30pm – Monday to Friday]  
**Emergency Telephone:** +64 274 736008(24 hours)  
National Poison Centre(24 hours):  
0800 POISON [ 764 766]  
**Date of preparation** 22 September 2017

## Section 2: Hazard Identification



### DANGER:

- Highly flammable liquid and vapour.
- May be harmful if swallowed.
- Causes mild skin irritation.
- Causes eye irritation.

**HSNO Approval Number:** Group Standard HSR001180.

**HSNO Classes:** 3.1B, 6.1E(oral),6.3B, 6.4A

### Prevention Statements:

- Read label before use.
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting, explosive-proof equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/eye protection.
- Wash hands thoroughly after handling.

### Response Statements

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- In case of fire: Use dry chemical powder or carbon di-oxide for extinction
- If medical advice is needed, have product container or label at hand.
- If skin irritation occurs: Get medical advice/ attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- If eye irritation persists: Get medical advice/attention.

#### Storage Statements

- Store in a well-ventilated place. Keep cool.

### **Section 3: Composition/Information on Ingredients**

Name	% by Wt.	CAS Number
Isopropyl Alcohol	100	67-63-0

### **Section 4: First Aid Measures**

<b>Eyes:</b>	If medical advice is needed, have product container or label at hand. Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin:</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
<b>Ingestion:</b>	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
<b>Inhalation:</b>	Remove to fresh air and keep at rest in a position comfortable for breathing.

For Further Information Telephone (24 Hours)The National Poison Centre: 0800 Poison [764 766]

### **Section 5: Fire Fighting Measures**

<b>Flash Point:</b>	12°C
<b>Auto ignition Temperature:</b>	399°C
<b>Flammable Limits in Air % by Volume:</b>	LFL: 1.8% UFL: 12.0%
<b>Extinguishing Media:</b>	Dry chemical or carbon dioxide
<b>Fire Fighting Instructions:</b>	Alert Fire Bridge (111); advise location and nature of hazard. Wear breathing apparatus and protective gloves. Shut off product that may "fuel" a fire if safe to do so. If safe, switch off electrical equipment until vapour hazard removed. Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet. Prevent product and extinguishing media from escaping to drains and waterways.
<b>Unusual Fire and Explosion Hazards:</b>	Carbon monoxide
<b>Hazchem code</b>	2YE

### **Section 6: Accidental Release Measures**

### Minor spills

- Remove or eliminate all ignition sources.
- Clean up spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Wear personal protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Collect residues and waste material in a labelled container suitable for flammables.
- Seal container and dispose of safely.

## **Section 7: Handling And Storage**

### **PROCEDURE FOR HANDLING**

- Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- DO NOT allow clothing wet with material to stay in contact with skin.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

### **SUITABLE CONTAINER**

- DO NOT use aluminium or galvanised containers.
- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.

### **STORAGE REQUIREMENTS**

- Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- Keep containers securely sealed.

## **Section 8: Exposure Controls/Personal Protection**

<b>Engineering Controls:</b>	General (mechanical) room ventilation is considered satisfactory in enclosed spaces.
<b>Eye / Face Protection:</b>	Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.
<b>Body Protection:</b>	PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.
<b>Respiratory Protection:</b>	Avoid breathing vapour or mist. Use NIOSH approved respiratory protection equipment appropriate to the material
<b>Exposure Limits:</b>	Not available

## **Section 9: Physical And Chemical Properties**

Appearance	Clear water white
Boiling point	82°C
Specific Gravity	0.78@25°C
Vapour Pressure	4.4 kPa @ 20°C
Vapour Density	Na

Solubility in water	Miscible
pH	Na
Evaporation Rate	2.4 BuAc = 1

## Section 10: Stability And Reactivity

Stability of the Substance:	Stable under normal conditions
Conditions to avoid:	Heat, ignition, Oxides
Materials to avoid:	
Hazardous Decomposition Products:	
Conditions Contributing to Hazardous Polymerization	

## Section 11: Toxicological Information

Eyes:	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur. Isopropanol vapour may cause mild eye irritation at 400 ppm. Splashes may cause severe eye irritation, possible corneal burns and eye damage.
Skin:	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting
Ingestion:	Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).
Inhalation:	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation, of the material, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.

## Section 12: Ecological Information

Aquatic toxicity: Product is not identified as being ecotoxic to aquatic life.	Persistence/degradability: Not expected to be persistent.
Mobility: This product is highly volatile and will rapidly evaporate.	Other information: None

## Section 13: Disposal Considerations

Care should be taken to ensure compliance with national, regional and local authority regulations. Packaging may still contain fumes and vapours that are flammable. Ensure that empty packaging is allowed to dry. If not recycled, puncture and crush before disposal to landfill. Do not use containers for storing other products.

## Section 14: Transport Information



UN No:	1219
Proper Shipping Name:	Isopropanol
Dangerous Goods Class:	3
Subsidiary risk	
Packing Group:	II
Hazchem Code:	2YE

## Section 15: Regulatory Information

HSNO Approval No:	
Group Standard:	Group Standard HSR001180
HSNO Classes:	3.1B, 6.1E(oral),6.3B, 6.4A

## Section 16: Other Information

### Disclaimer

This document is based on information obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While we have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, we accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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