

Jaychem Industries Limited  
**MATERIAL SAFETY DATA SHEET**

Date Prepared: 8 June 2010

**1. PRODUCT IDENTIFICATION:**

<b>Product Name:</b>	<b>healthE</b> Isopropyl Alcohol 70%
<b>UN Number:</b>	1219
<b>UN Proper Shipping Name:</b>	Ethanol solutions
<b>DG Class and Packing Group</b>	Class 3 PG II
<b>Hazchem Code:</b>	2[Y]E
<b>Product Type:</b>	Liquid
<b>Product Class:</b>	Isopropanol
<b>Manufacturer:</b>	Jaychem Industries Ltd.
<b>Address:</b>	3 Kordel Place, East Tamaki, Auckland.
<b>Telephone:</b>	09 274 6647
<b>Fax</b>	09 274 1358
<b>Use:</b>	Bactericidal hospital grade disinfectant

**2. COMPOSITION/ INFORMATION ON INGREDIENTS:**

<b>Proprietary:</b>	No
<b>Ingredient:</b>	<b>Isopropanol</b>
<b>Ingredient Sequence Number:</b>	01
<b>Percent:</b>	70 % v/v
<b>CAS Number:</b>	67-63-0

<b>Proprietary:</b>	No
<b>Ingredient:</b>	<b>Deionised water</b>
<b>Ingredient Sequence Number:</b>	02
<b>Percent:</b>	<30
<b>CAS Number:</b>	7732-18-5

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**3. HAZARDS IDENTIFICATION:**

<b>Hazard Classification:</b>	Class 3 PGII Highly flammable
<b>Risk Phrase(s)</b>	R11- Highly flammable; R66 – Repeated exposure may cause skin dryness and cracking; R20/22 Harmful by inhalation and if swallowed; R35/38- Irritating to skin and eyes
<b>Safety Phrase(s)</b>	S7/9 – Keep container tightly closed; S16 – Keep away from sources of ignition – no smoking; S23 – Do not breathe vapour; S24/25 – Avoid contact with skin and eyes; S29 – Do not empty into drains; S33 – Take precautionary measures against static discharges; S36/37/39 – Wear suitable protective clothing/ gloves and eye/face protection; S45 – In case of accident or you feel unwell seek medical advice immediately (show the label wherever possible)

**4. FIRST AID MEASURES**

For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately.

**Inhalation:** Remove patient to fresh air. If respiratory irritation, dizziness, nausea or headache occurs, seek immediate medical attention. Apply artificial respiration if breathing stops.

**Ingestion:** If swallowed, give large amounts of water to drink. Do not induce vomiting. Contact a doctor or National Poisons Centre.

**Eye:** Hold eyelids open and flush eye with gently running water for at least 15 minutes. Seek medical attention promptly if irritation persists.

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**5. STABILITY/REACTIVITY DATA:**

<b>Stability:</b>	Yes
<b>Cond to Avoid (Stability):</b>	Avoid freezing
<b>Materials to Avoid:</b>	Avoid temperatures above 30 degrees celcius
<b>Hazardous Decomposition Products:</b>	Carbon monoxide or carbon dioxide.

**6. HEALTH HAZARD DATA:**

<b>Route of Entry-Inhalation:</b>	NO
<b>Route of Entry-Skin:</b>	NO
<b>Route of Entry-Ingestion</b>	If swallowed seek medical attention immediately. Do NOT induce vomiting.
<b>Health Hazard Acute and Chronic:</b>	NO

**7. CHEMWATCH HAZARD RATINGS:**

<b>Flammability:</b>	Medium/High
<b>Toxicity:</b>	Medium
<b>Body Contact:</b>	Medium
<b>Reactivity:</b>	Medium
<b>Chronic:</b>	Min/Nil
<b>Hazchem Code:</b>	2[Y]E

**8. TOXICOLOGICAL INFORMATION:**

<b>healthE Isopropyl Alcohol 70%</b>	Moderately irritating to mucous membranes. May cause nausea and vomiting. Aspiration may cause lung damage. May cause irritation and reddening to the skin. Vapour may irritate the eyes. Liquid or mist may irritate or damage the eyes. Long term exposure by swallowing or repeated inhalation may cause degenerative changes in the liver, kidneys, gastrointestinal tract and heart muscle.
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**MATERIAL SAFETY DATA SHEET****9. PHYSICAL DESCRIPTION/PROPERTIES**

<b>Appearance</b>	Clear colourless liquid with spirituous odour
<b>pH</b>	Not known
<b>Specific gravity</b>	0.869-0.894 g/ml

**10. HEALTH HAZARD/ACUTE HEALTH EFFECTS**

<b>Swallowed:</b>	Nausea and vomiting.
<b>Eye:</b>	The material may produce irritation to the eye causing pronounced inflammation. Immediately flush eyes with water for at least 15 minutes, while holding eyelid open. Seek medical attention at once.
<b>Skin:</b>	Safe for contact with skin

**11. PERSONAL PROTECTION**

<b>Eye</b>	Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
<b>Body/Hands/Feet</b>	None

**12. STORAGE AND TRANSPORT**

<b>Suitable Container</b>	Packaging as recommended by manufacturer. Check that containers are clearly labeled.
<b>Storage Site Requirements</b>	Observe manufacturer's storing and handling recommendations. Keep containers securely sealed. Store in a cool, dry and well-ventilated area. Store away from incompatible materials. Protect containers against physical damage. Check regularly for spills and leaks. Keep away from naked flame and avoid temperatures over 30 degrees Celsius.
<b>Approved Handlers</b>	Not required.

**MATERIAL SAFETY DATA SHEET****13. FIRE FIGHTING MEASURES**

<b>Flash Point:</b>	12°C (100% IPA)
<b>Vapour density:</b>	2.1 (100% IPA)
<b>Boiling Point:</b>	82.4 degrees celcius (100% IPA)
<b>Extinguishing Media:</b>	Use media suitable for surrounding materials. Do not allow water to enter drains.
<b>Unusual Fire and Explosive Hazards:</b>	None Known

**14. EXPOSURE CONTROL**

<b>Workplace Exposure</b>	Isopropanol 100% -TLV - 400ppm, 1880mg/m <sup>3</sup> TWA time weighted average airborne concentration over an eight hour day, for a five day working week over and entire working life.
<b>Application in the workplace</b>	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin contact.
<b>Exposure standards outside the workplace</b>	TELs and EELs are not set at this time
<b>Engineering controls</b>	Ensure that ventilation maintains dust levels below WES

**15. ENVIRONMENTAL INFORMATION**

<b>healthE Isopropyl Alcohol</b>	Not Applicable
<b>Disposal</b>	Preferably dispose of by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Do not use container for any other purpose.

**16. ADDITIONAL INFORMATION**

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith. However, no warranty or representation with respect to such information is intended or given.
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