



## **MATERIAL SAFETY DATA SHEET**

|          |             |
|----------|-------------|
| PRODUCT: | Isoprop - H |
|----------|-------------|

### **1. Product and Company Identification**

|                         |  |  |
|-------------------------|--|--|
| PRODUCT NAME:           | Isoprop - H                                      |  |
| SYNONYM:                | Alcohol based Disinfectant                       |  |
| CHEMICAL NAME:          | Isopropanol (CH <sub>3</sub> ) <sub>2</sub> CHOH |  |
| CAS NO:                 | 67-63-0  |  |
| UN NO:                  | 1219   |  |
| REF NO:                 |  |  |
| SUPPLIER/MANUFACTURER:  | Name:  | <i>Pineland Environmental Technology (Pty) Ltd</i>                             |
|                         | Address:   | Unit B41<br>Pinelands Business Park<br>New Mill Road<br>Pinelands<br>Cape Town |
|                         | Tel No:  | +27 (0)21-531-3749   |
|                         | Telefax:   | +27 (0)21-531-3903   |
| EMERGENCY TELEPHONE NO: | 083 464 1074 (Chris Davidson)                    |  |

### **2. Composition/Information on Ingredients**

|                  |  |
|------------------|--|
| CHEMICAL NATURE: | Contains a blend of isopropanol and water. |
|------------------|--|

### **3. Hazards Identification**

|                                  |   |
|----------------------------------|---|
| ADVERSE HUMAN HEALTH EFFECTS:    | Harmful if swallowed, affects central nervous system. Can be absorbed through skin. |
| PHYSICAL AND CHEMICAL HAZARDS:   | Causes irritation of eyes, respiratory tract and skin.                              |
| - Fire or explosion:             | Warning – flammable liquid and vapour!,   |
| CLASSIFICATION/SPECIFIC HAZARDS: |   |

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### **4. First Aid Measures (To be done by first aid personnel)**

|               |  |
|---------------|--|
| INHALATION:   | Inhalation of vapours irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, produces dizziness, drowsiness, headache, unconsciousness and even death. Move patient to fresh air. If breathing of patient is difficult administer oxygen or artificial respiration. |
| SKIN CONTACT: | May cause skin irritation with redness and pain. May be absorbed through the skin with systemic effects. Immediately flush with plenty water for 15 minutes. Call a doctor if irritation develops.   |
| EYE CONTACT:  | Splashes cause severe eye irritation, possible corneal burns and eye damage. Vapours cause eye irritation. Flush with running water for 15 minutes, lifting lower and upper eyelids occasionally. Consult doctor as soon as possible.  |
| INGESTION:    | Can cause drowsiness, unconsciousness and death. Gastrointestinal pain, cramps, nausea, vomiting and diarrhea may also result. Single lethal dose for human adult is approx 250 ml. Give large amounts of water to drink. Consult doctor immediately.  |

### **5. Notes to Physician (NB: This treatment is only to be given by a medical doctor or under his supervision)**

|                |                               |
|----------------|-------------------------------|
| INGESTION:     | Flush with water if possible. |
| CARCINOGENITY: | Not known or anticipated.     |

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### **6. Fire Fighting Measures**

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|----------------------|---|
| EXTINGUISHING MEDIA: | Dry chemicals, water or alcohol foam, or carbon dioxide.  |
| - Suitable:          | Water spray, as above.  |
| - Not to be used:    |   |
| SPECIFIC HAZARDS:    | This product is flammable. Vapour-air mixtures are flammable. Contact with strong oxidizers may cause fire or explosion. Sensitive to static discharge. |

### **7. Accidental Release Measures**

|                            |   |
|----------------------------|---|
| PERSONAL PRECAUTIONS:      | Full protective clothing, including facemasks. Facepiece respirator with organic vapour cartridge.  |
| ENVIRONMENTAL PRECAUTIONS: | For small spills take up with sand, earth or other absorbent material, such as vermiculite. Place in chemical waste container. Do not use combustible materials such as saw dust. |
| CLEAN UP                   | Evacuate area. Shut off all sources of ignition. Wear respirator, rubber boots & rubber gloves. Ventilate area & wash spill site after material pickup is complete.               |

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### **8. Handling and Storage**

|                                 |   |
|---------------------------------|---|
| HANDLING:                       | Protect against physical damage.  |
| Technical Measures:             | Keep separate from other chemicals.                                     |
| STORAGE:                        | Cool dry area, detached storage preferable.                             |
| Technical measures:             | Use only vented caps  |
| Recommended storage conditions: | Cool dry area, outside or detached areas, depending on volumes.         |
| Incompatible products:          | Strong oxidizing agents, flames, sparks, acids, chlorine and peroxides. |
| Packaging:                      | Plastic cans with caps  |
| Packaging materials:            |   |
| - Recommended:                  | Plastic   |
| - Not suitable:                 | Avoid static discharges; aluminium.                                     |

### **9. Exposure Controls/Personal Protection**

|                                |                                       |
|--------------------------------|---------------------------------------|
| Engineering Measures:          |                                       |
| PERSONAL PROTECTIVE EQUIPMENT: |                                       |
| - Hand Protection:             | Gloves (neoprene and nitrile rubbers) |
| - Eye Protection:              | Mask                                  |
| - Skin and body Protection:    | Overalls, overcoats and aprons        |

### **10. Physical and Chemical Properties**

|                               |                      |
|-------------------------------|----------------------|
| APPEARANCE:                   |                      |
| - Physical state:             | Liquid               |
| - Colour:                     | Colourless and clear |
| ODOUR:                        | Alcohol              |
| - pH:                         | N/a                  |
| SPECIFIC TEMPERATURES:        |                      |
| - Melting:                    | -89 °C               |
| - Boiling:                    | 82 °C                |
| FLAMMABILITY CHARACTERISTICS: |                      |
| - Flash point:                | 12 °C                |
| - Ignition temperature:       | N/a                  |
| - Explosion limits:           | N/a                  |
| OXIDIZING PROPERTIES:         |                      |

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|                        |                |
|------------------------|----------------|
| DENSITY:               | 0,79           |
| BULK DENSITY:          | 0,79           |
| VAPOUR PRESSURE:       |                |
| SOLUBILITY:            |                |
| - In water:            | Fully miscible |
| - In organic solvents: |                |

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#### **11. Stability and Reactivity**

|                                     |   |
|-------------------------------------|---|
| STABILITY:                          | Stable under normal conditions                              |
| HAZARDOUS REACTIONS:                |   |
| - Materials to avoid:               | Acids, oxidants and flammable substances.                   |
| - Conditions to avoid:              | Heated non-ventilated areas, static discharges, and flames. |
| - Hazardous decomposition products: | Carbon dioxide and carbon monoxide.                         |

#### **12. Toxicological Information.**

|                 |                              |
|-----------------|------------------------------|
| ACUTE TOXICITY: | LD50 oral, rat = 5045 mg/kg  |
| LOCAL EFFECTS:  | Skin rabbit LD50 = 12,8 g/kg |

#### **13. Ecological Information**

|                                    |  |
|------------------------------------|--|
| BEHAVIOUR IN THE ENVIRONMENT:      | This products is biodegradable with time |
| PERSISTENCE/DEGRADABILITY:         |  |
| EXPECTED BEHAVIOUR OF THE PRODUCT: | Will evaporate when spilled              |
| POSSIBLE IMPACT/EFFECTS:           | Has a half-life of 1 to 10 days in air.  |
| ECOTOXICITY:                       |  |

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### **14. Disposal Considerations**

|                           |                                      |
|---------------------------|--------------------------------------|
| STABILITY:                |                                      |
| WASTE FROM RESIDUES:      | Information not available at present |
| - Disposal:               |                                      |
| CONTAMINATED PACKAGING:   |                                      |
| Decontamination/cleaning: |                                      |
| Disposal:                 |                                      |

### **15. Transport Information**

|                      |                       |
|----------------------|-----------------------|
| LAND:                | Normal road transport |
| RAIL/ROAD (RID/ADR): |                       |
| SEA (IMO/IMDG):      |                       |
| AIR (ICAO-IATA):     |                       |

### **16. Regulatory Information**

|                  |           |
|------------------|-----------|
| EEC REGULATIONS: |           |
| HAZARD SYMBOL:   | Flammable |
| R PHRASES:       |           |
| S PHRASES:       |           |

### **17. Other Information**

|        |  |
|--------|--|
| USES:  |  |
| OTHER: |  |

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The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended.

The classification was effectuated according to information derived from technical literature and supplier companies.

Information included in this document is based on present knowledge; however, they do not assure the product properties and do not assume any legal condition.

The material safety data sheet completes the product information without replacing it.

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