



# BIOEARTH

L A B O R A T O R I E S

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BIOEARTH MANUFACTURING PTY(LTD), 2003/005301/07

## MATERIAL SAFETY DATA SHEET

VALIDATION DATE: 10/06/2009

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### 1. Identification of the substance/preparation and company

1.1 Commercial product name:

SANI-HANDS

Use of the substance / preparation:

Hand and skin disinfectant

1.2 Information on manufacturer / Supplier

BioEarth Laboratories  
5 Van der Berg Crescent  
Gant Centre  
Strand; 7140

Contact information:

Tel: +27 (0) 21 8530788

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### 2. Composition / Information on ingredients

2.1 Chemical characterization:

70% isopropyl alcohol  
Purified water  
Glycerine  
Eucalyptus

2.2 Description:

Hand and skin disinfectant

2.3 Hazardous components

<u>Substance:</u>	<u>%</u>	<u>CAS-No</u>	<u>Hazard Symbols</u>	<u>R-phrases</u>
Isopropyl alcohol	70.0	67-63-0	F,Xi	R11-36-67

### **3. Hazards identification:**

#### **3.1 Hazard designation:**

F Highly flammable

#### **3.2 Specific hazard identification for man and environment:**

R11 Highly flammable

R36 Irritating to eyes

R67 Vapour can cause drowsiness

### **4. First aid measures:**

#### **4.1 General information:**

Remove contaminated clothing immediately

#### **4.2 Allergic symptoms with skin contact:**

Rinse immediately with warm water

#### **4.3 After eye contact::**

Rinse immediately with warm water for several minutes

#### **4.4 After ingestion:**

Same treatment as with ethanol.

#### **4.5 Information for the doctor:**

Same treatment as with acute ethanol intoxication.

### **5. Fire fighting measures:**

#### **5.1 Suitable extinguishing media:**

CO<sub>2</sub>, dry powder, water spray jet.

Fight huge fires with water spray jet or alcohol resistant foam

#### **5.2 Extinguishing media that must not be used for safety reasons:**

None

#### **5.3 Special exposure hazards arising from the substance or preparation itself, combustion products or resulting gases:**

None

#### **5.4 Special protective equipment for firefighters:**

None

#### **5.5 Additional information:**

### **6. Accidental release measures:**

#### **6.1 Personal precautions:**

Use personal protective equipment. Keep away people without protection.

6.2 **Environmental precautions:**  
Do not allow to enter sewer system, basements and pits.

6.3 **Methods for cleaning up / taking up:**  
Take up with suitable liquid-absorbing materials (sand, universal binder, sawdust)

## 7. **Handling and Storage:**

7.1 **Handling:**  
Keep containers tightly closed. Keep containers well locked up and in a cool and dry place. Keep away from sources of ignition – No smoking! Take precautionary measures against electrostatic loading.

7.2 **Storage:**  
7.2.1 Requirements for storage rooms and vessels: Store in a cool place. Protect from insolation.  
7.2.2 Advice on storage compatibility: Do not store with food  
7.2.3 Further information on storage conditions:  
Classification according to VbF: B  
Water Hazard Class (WGK): 1

## 8. **Exposure limitation and personal protective equipment:**

8.1 **Additional information on design of technical plants:**

8.2 **Ingredients with limit values on working places which have to be controlled:**  
Isopropyl alcohol: MAK 500mg/m<sup>3</sup>, 200ml/m<sup>3</sup>

8.3 **Personal protective equipment:**

Respiratory Protection:

Hand Protection: Protective gloves

Eye protection: Tightly fitting protective goggles

Body Protection: Wear suitable protective clothing

General protective and hygiene measures:

Avoid eye contact  
Remove contaminated clothing immediately  
Keep away from food

## 9. **Physical and Chemical Properties:**

9.1 **Appearance:**  
Form: Liquid

Colour: Clear  
Odour: Alcoholic / Eucalyptus

## 9.2 Safety relevant data

	<u>Value unit</u>	<u>Test Method</u>
pH value (at 20°C; 100g/l H <sub>2</sub> O)		(ISO 4316)
Melting point	-89.5°C	
Boiling point	82°C	
Flash point: Flammability	12°C	
Ignition temperature	425°C	
Lower explosion limit	2 Vol. %	
Upper explosion limit	12 Vol. %	
Density	0878g/cm <sup>3</sup>	(DGF-IV2)
Water solubility: (at 20°C)	Completely miscible g/l	
Dynamic viscosity	mPas	(Brookfield)

## 9.3 Further information

## 10. Stability and reactivity:

### 10.1 Thermic decomposition / Conditions to avoid:

Stability: Stable

### 10.2 Hazardous reactions / Materials to avoid:

### 10.3 Hazardous decomposition products:

## 11. Toxicological information:

### 11.1 Acute toxicity (Values relevant for classification LD50 / LC50):

### 11.2 Sensitisation:

Sensitisation not known

## 12. Ecological information:

### 12.1 Information about elimination (persistence and degradability):

Slightly water hazardous

### 12.2 Ecotoxicity:

### 12.3 Further information:

Water Hazard Class (WGK): 1

Do not allow undiluted product to enter sewage water

**13. Disposal considerations:**

**13.1 Disposal:**

Pass to a special treatment facility in compliance with regulations

**13.2 Product:**

Hand and skin disinfectant.

**13.3 Waste code (in accordance with EWC):**

To be classified in accordance with authorities

**13.4 Soiled packaging:**

Recommended cleansing agent: Water

**14. Transport information:**

**14.1 Land transport (ADR/RID/GGVS/GGVE):**

ADR/RID and GGVS/GGVE-class:	3
Hazard-No (Kemler-No):	F1
UN-No:	1219
Danger sheet:	3
GGVS/ADR packing group:	II
Description of the goods:	Isopropyl alcohol 70%
Remarks:	

**14.2 Inland waterways transport**

AND/ADNR-class  
Remarks:

**14.3 Marine transport**

IMDG/GGVSea-class	3.2
UN-No:	1219
EMS-No:	F-E,S-D
MFAG-No:	305
Marine pollutant:	
GGVSea Packing group	
Description of goods:	Isopropyl alcohol 70%
Danger sheet:	
IMDG-Page:	
Remarks:	

**14.4 Air transport**

ICAO/IATA-class	3
UN/ID-No:	1219
Danger sheet:	
IATA-packing instructions - passenger	
IATA-max. quantity - passenger	
ICAO-packing group:	II
Description of goods:	Isopropyl alcohol 70%
Remarks:	

14.5 **Further information**  
UN packing group: II

15. **Regulatory information:**

15.1 **Labelling:**

15.1.1 Hazard designation:	F	Highly flammable
15.1.2 R-phrases:	R11	Highly flammable
	R36	Irritating to eyes
	R67	Vapour can cause drowsiness
15.1.3 S-phrases:	S2	Keep out of reach of children
	S7/9	Keep container tightly closed and store them with good ventilation.
	S16	Keep away from sources of ignition – No smoking!
	S25	Avoid contact to eyes
	S33	Take precautionary measures against static discharges

15.2 **National regulations:**

No. according to Decree for Case of Interference.  
Follow VCI concept  
Water Hazard Class (WGK): 1  
No. according to catalogue of water hazardous substances

16. **Other information:**

The above given information is based on the present state of our knowledge. It does not represent a guarantee for properties of the product(s) and establishes no contractual legal rights. Recipients of our product(s) must take responsibility for observing existing laws and regulations.