



**SAFETY DATA SHEET**

**Section 1 – Chemical Product and Company Identification**

<b>Product Identity</b>	
<b>Trade Name</b>	BioFOG Sanitizer Solution
<b>Chemical Name</b>	Ethanol, Isopropyl Alcohol, Glycerine
<b>Intended Use</b>	Sanitizer Spray or Solution wipe
<b>Method of Use</b>	Wipe or pump spray
<b>Company</b>	Jelly Jumper (Pty) Ltd t/a BioFOG 158 Burman Road, Deal Party, Port Elizabeth, 6070
<b>Email address</b>	<a href="mailto:info@biofog.co.za">info@biofog.co.za</a>
<b>Emergency no</b>	+27 84 4777 400 Poisons helpline 0861 555 777

**Section 2 – Hazard(s) Identification**

Serious eye damage / eye irritation,	Category 2A	H319
Hazardous to the aquatic environment-	Acute Hazard, Category 2	H401
Hazardous to the aquatic environment-	Chronic Hazard, Category 3	H412

GHS Label elements  
Hazard pictograms (GHS-ZA)



	GHS02	GHS07
Signal word	Danger	
<b>Hazard statements</b>	H225 Extremely Flammable liquids and vapour H319 Causes serious eye irritation H302 Harmful if swallowed H336 May cause drowsiness or dizziness H401 Toxic to aquatic life H412 Harmful to aquatic life with long lasting effects	
<b>Precautionary statements</b>	P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children P103 Read label before use P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P240 Ground/Bond container and receiving equipment P211 Do not spray on an open flame or other ignition source	

Response	P251 Do not pierce or burn, even after use P264 Wash hands and face thoroughly after handling P273 Avoid release to the environment P280 Wear eye protection, protective gloves P303 IF ON SKIN OR HAIR Remove all contaminated clothing immediately. P361 Rinse skin with water/shower. P353 P304 IF INHALED Call a poison advice centre or doctor if you feel unwell P312 P305 IF IN EYES Rinse cautiously with water for several minutes, remove P351 contact lenses if present. Continue rinsing. P338 P313 If eye irritation persists, get medical advice, medical attention P337
Storage	P370 IN CASE OF FIRE Use dry sand, dry chemical or alcohol resistant P378 foam for extinguishing P233 Store in a well ventilated place. Keep containers tightly closed. Keep P235 cool P403 P405 Store in a secure area, locked up P410 Protect from sunlight. Do not expose to temperature exceeding 50 PP412 °C
Disposal	P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations

### Section 3 – Composition/information on ingredients

Chemical description : Liquid solvent Hazardous

Components :

Chemical Name	CAS no	Approx %	Hazard Statements	Precautionary Statements
Ethanol	64-17-5	94 - 95%	H225, H302, H319	P102, P103, P210, P264, P280, P305, P313, P337, P338, P351
Isopropyl Alcohol	67-63-0	4.5 – 5%	H225, H319, H335	P102, P103, P210, P264, P280, P305, P313, P337, P338, P351
Glycerine	56-81-5	< 5		

Exposure limit(s) : See Section 8

Classification and hazard labelling : See Section 15

### Section 4 – First Aid Measures

Eye contact Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses. Call a physician immediately.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

Inhalation Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

Ingestion Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

### **Section 5 – Fire Fighting Measures**

Fire/explosion Flash back possible over considerable distance.

Hazardous combustion products Carbon oxides.

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media Do not use water jet.

Protection measures and instructions Wear self-contained breathing apparatus and protective suit.

Further information Use water spray to cool unopened containers.

### **Section 6 – Accidental Release Measures**

Personal precautions Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.

Environmental precautions Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material and dispose of as hazardous waste.

Exposure controls/personal protection: See Section 8

Under normal use conditions the chemicals in this product do not pose an acute risk of poisoning. Product will evaporate.

### **Section 7 – Handling and Storage**

Safe handling advice Do not breathe vapours or spray mist. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment.

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.

Storage Keep away from sources of ignition - No smoking.

Further information on storage conditions Keep containers tightly closed in a cool, well-ventilated place.

KEEP OUT OF REACH OF CHILDREN

### **Section 8 – Exposure controls and personal protection**

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eyes	Safety glasses with side-shields
Skin	Protective suit. Safety shoes.
Inhalation	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Gloves suitable for permanent contact: Material: butyl-rubber fluoro carbon rubber - FKM polychloroprene Material thickness: 0.5 mm Unsuitable gloves Material: natural rubber/natural latex Polyvinylchloride
Hygiene measures	Wash hands before breaks and immediately after handling the product.
Protective measures	Wear suitable protective equipment.

Exposure Guidelines Components Exposure limit(s)

PEL= Permissible Exposure Limits  
TWA= Time Weighted Average (8 hr.)  
TLV= Threshold Limit Value  
STEL= Short Term Exposure Limit (15 min.)  
EL= Excursion Limit  
WEEL= Workplace Environmental Exposure Level

### Section 9 – Physical and Chemical Properties

State of matter	Liquid
Colour	Colourless
Odour	Characteristic
Form	Liquid
Boiling point	77 - 80 °C
Flash point	14 - 16 °C
Lower explosion limit	No data available
Upper explosion limit	No data available
Solubility(ies)	Completely soluble
Viscosity	1.9 - 2.1 mm <sup>2</sup> /s
Melting point/range	-88.5 °C literature value
Density	0.79 g/cm <sup>3</sup> at 20 °C
pH	No data available

### Section 10 – Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	Carbon oxides.
Materials to avoid	Oxidizing agents. Acids and bases
Hazardous polymerisation	No dangerous reaction known under conditions of normal use.

## Section 11 – Toxicological information

Acute oral toxicity Propan-2-ol; isopropyl alcohol; isopropanol:  
LD50 Rat: > 2,000 mg/kg; (literature value)

Acute oral toxicity Ethanol:  
LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401; GLP: no (literature value)

Acute inhalation toxicity Propan-2-ol; isopropyl alcohol; isopropanol:  
LC50 Rat: 8 h; > 20 mg/l; (literature value)

Acute inhalation toxicity Ethanol:  
LC50 Mouse: 4 h; > 20 mg/l; (literature value)

Skin irritation Propan-2-ol; isopropyl alcohol; isopropanol:  
Rabbit: Not irritating; (literature value)

Sensitisation Ethanol: Maximisation Test;  
Guinea pig: Not sensitizing; OECD Test Guideline 406; (literature value)

Sensitisation Propan-2-ol; isopropyl alcohol; isopropanol:  
Buehler Test; Guinea pig: Not sensitizing; (literature value)

Mutagenicity Ethanol:  
Ames test: Salmonella typhimurium; with and without; Not mutagenic; OECD Test Guideline 471; (literature value)

Mutagenicity Propan-2-ol; isopropyl alcohol; isopropanol:  
Ames test: Salmonella typhimurium; with and without; Not mutagenic; (literature value)

## Section 12 – Ecological information

### Ecotoxicity effects

Toxicity to fish Ethanol: static test; Leuciscus idus; 48 h; LC50; > 100 mg/l; OECD Test Guideline 203;  
(literature value)

Toxicity to fish Propan-2-ol; isopropyl alcohol; isopropanol: static test; Leuciscus idus melanotus; 48 h;  
LC50; > 100 mg/l; (literature value)

Biodegradability Propan-2-ol; isopropyl alcohol; isopropanol: aerobic; activated sludge; 53 %; 5 d; Readily  
biodegradable.; (literature value)

Mobility in soil No data available

Results of PBT and vPvB assessment This substance is not considered to be persistent, bioaccumulating and toxic  
(PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Other adverse effects No data available

Chemical Oxygen Demand (COD) Ethanol: ca.1,700 mg/g; Directive 84/449/EEC, C.9; GLP: no;

## Section 13 – Disposal considerations

Waste Classification :

US EPA Resource Conservation and Recovery Act : (RCRA) D list (40 CFR 261.21-24: D001

Waste treatment methods :

Dispose of waste and residues in accordance with local authority requirements.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Dispose of contaminated packaging as unused product.

#### Section 14 – Transport information

UN number: 1987

DOT/49CFR ALCOHOLS, N.O.S. (Ethanol, Isopropanol) Class: 3, II

Packing group: None



#### Section 15 – Regulatory information

As per section 2

#### Section 16 – Other information

All information is based on current information available.

Data is to the best of our knowledge correct – we cannot be held responsible.

**End of document**