

GREENFLUSH (PTY) LTD

Reg no. 2011/000904/07

VAT no. 4550257390

83 Wriggle Road

Heriotdale

Johannesburg

2094

Phone 011 867 3210

Email info@greenflush.co.za

MATERIAL SAFETY DATA SHEET

Disclaimer and important safety notice

All information is provided in good faith and as accurate as possible. Greenflush (Pty) Ltd will not accept any liability pertaining to the use of its products, as it is up to the end user "consumer" to determine the correct and safe use of this product. Kindly study this document prior to using this product or, contact us for additional technical advice. All persons using this product must familiarise themselves with the user guidelines before application. Please ensure that this document is easily obtainable in the event of an emergency.

Date of issue: Mar 2020	Revision date: June 2020	Revision: 3
--------------------------------	---------------------------------	--------------------

Supplier identification and information

Manufacturer name	Green Fuel (Pvt) Ltd		
Address of manufacturing	Green Fuel Chisumbanje Factory, Chisumbanje, Zimbabwe		
Tel no	+264 242852077-80 or +263 772 786 235		
Emergency	+263 779 565984	Technical	+263 775 561890
Email	info@greenfuel.co.zw		

1. Product identification

Product name	Hand Sanitizer (Alcohol Based)	Code	N/A
Chemical /technical nature Application type	Alcohol based liquid hand sanitizer		

2. Composition /information on ingredients

Ingredients contributing to hazard	Content % v/v	Risk-Phrase	Safety Phrase
Ethanol	±70	R11	S46
Glycerine	±1.45	R36	S46
Hydrogen peroxide	±0.125	N/A	N/A
Demineralised Water	Balance		

For detailed risk and safety phrases see section 15 of this MSDS. Please note data are typical of the product and not a specification or a full composition. The risk profile may change if this product is mixed with other compounds or as a blend within other components

3. Hazard identification

Primary Safety Hazard	Solvent based, flammable.
Secondary Safety Hazard	Harmful if swallowed.
Additional info	Avoid contact with eyes, do not use on or near naked / open flames.

4. First aid measures

Inhalation	Fresh air.
Skin contact	If irritation occurs, rinse with water.
Eye contact	Rinse with water.
Ingestion	Seek medical attention.

General notes to the physician and / or medical officer

Never give anything by mouth or induce vomiting to an unconscious person. Treatment of exposure should be directed at the control of the symptoms and the clinical condition of the patient. Depending on the risk profile of the product and the patient the symptoms may re-occur and/or change over time. In that event have the patient consult a physician again.

5. Fire-fighting measures

Extinguishing media	Dry powder, CO ₂ .
Specific hazards	None known.

6. Accidental release measures

Clean up method	Dry sand. Discharge in accordance with local regulations. FOR SMALL LIQUID SPILLS (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. FOR LARGE LIQUID SPILLS (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material; and dispose of safely. Remove contaminated soil and dispose of safely.
Environmental precaution	Do not discharge large volume into drains.

7. Handling and storage

Handling	Handle with appropriate care.
Storage	Cool storage, well ventilated, avoid high temperature.

8. Exposure controls / personal protection

Engineering measures	No specific required.
Personal protective equipment	Eye protection

9. Stability and reactivity

Stability	Stable under normal cool conditions.
------------------	--------------------------------------

Hazardous decomposition products	None known.
---	-------------

10. Physical and chemical properties

Appearance	Clear Translucent liquid
Colour	Clear Colourless
Odour / Smell	Strong alcohol solvent
pH	6-8
Boiling Point Range °C	> 78.5
Melting Point Range °C	N/A
Viscosity @ 20°C / CPS	N/A
Flashpoint °C	17.5
Auto Ignition Temp °C	>363
Explosion limits in air %	Not tested
Vapor pressure @ 20° C	Not tested
Specific Gravity - (SG) @ 20°C	0.8 – 0.9
Soluble in water	Soluble
Soluble in other	N/A

Other data / comments	N/A
------------------------------	-----

These data are typical for the product and not a specification

11. Toxicological information / health effects

Inhalation	May cause headaches, nausea, vomiting, dizziness, confusion and other associated conditions with prominent and/or long-term exposure.
Skin contact	None expected
Eye contact	May cause irritation to the eye
Ingestion	May cause nausea, vomiting and diarrhoea.

12. Ecological information

Biodegradability	Contains readily biodegradable properties. This product can be successfully bioremediated.
Bioaccumulation	Not likely.

13. Disposal consideration

In accordance with local regulations. In the event that disposal of material is conducted by a third party please ensure that the service provider is authorized and reputable. Please contact the manufacturer for additional information if required.

Material Disposal	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
Container Disposal	Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard if heated above the flash point. Do not puncture, cut or weld unclean containers
Local Legislation	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

14. Transport information / road and rail only

Transport type	UN No	Class	Item
ADR/RID (Road/Rail)	1170	3	Alcohol based hand Sanitiser

Additional information	None
------------------------	------

15. Regulatory information / EEC classification

Warning phrase	Caution	Symbol
R-phrase	Harmful if swallowed Can cause irritation to eye	R22 R36
S-phrase	Keep out of children reach Keep container closed When using do not eat or drink Avoid contact with eyes In case of contact wash eye with water and seek medical advice If swallowed seek medical advice	S2 S7 S20 S25 S26 S46

Product contains	Ethanol
-------------------------	---------

16. Other information

General info		All persons using this product must familiarise themselves with the user guidelines before application	
Issued by	Greenflush (Pty) Ltd	Signed by	