



## **MATERIAL SAFETY DATA SHEET (MSDS) FORMAT**

### **IDENTIFICATION OF THE SUBSTANCE / COMPANY DETAILS**

1. Product Name: G-Force Bio-Bloo TF/ Bio-Bloo TF Lite  
 Product Information: Biodegradable Deodorant for Portable Toilets  
 Company Name: G-Force Chemicals incorporating SmartBag  
 Address: 23 Reuben Kaye Road  
 Parow Industrial  
 Cape Town  
 Postal Address: P O Box 36746  
 Chempet  
 7442  
 South Africa  
 Phone No: (+27)21 551 4119  
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2. **COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name: Glutaraldehyde  
 Product Code: Not Available  
 Hazardous Ingredients / Components: Glutaraldehyde  
 CAS No. 111-30-8  
 Other Components: Organic Compound, Dye, Perfume and Inhibitors

Glutaraldehyde is readily biodegradable in the freshwater environment. The OECD 301 series of biodegradation protocols are designed to determine the biodegradation potential of substances under stringent conditions. In one such biodegradation test, glutaraldehyde met and exceeded the OECD ready biodegradability classification criteria and thus was found to be readily biodegradable. The compiled ecotoxicology data indicates that glutaraldehyde is a readily biodegradable compound that has little environmental impact when handled properly. Due to its rapid metabolism and biodegradation under both aerobic and anaerobic conditions, it has a favorable ecotoxicology profile. Complete details on the biodegradation tests mentioned above, as well as many other environmental fate and ecotoxicology tests that have been performed on glutaraldehyde, are summarized in a Dow Chemical publication entitled "Ecotoxicology of Glutaraldehyde" (Form No. 253-01418).



3. HAZARDS IDENTIFICATION

Health:

Inhalation: Mild irritation, ensure adequate ventilation

Skin Contact : Mild irritant and stains.

Eye Contact: Irritant

Ingestion : Toxic

Fire: Not Applicable

4. FIRST – AID MEASURES

Inhalation: Remove to fresh air. Mild respiratory irritant

Skin Contact: Wash with water and emollient. Apply skin cream

Eye Contact: Flush with running water for 10 minutes. Requires medical attention.

Ingestion: Do not induce vomiting. Drink 500ml milk. Requires medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media: Not applicable

Fire Fighting Protective Equipment: Not applicable

Specific Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear Gloves and Eye Protection

Environmental precautions: Dilute with water

Method for cleaning up: Mop up or absorb with absorbent. Dispose at waste site

7. HANDLING AND STORAGE

Handling: Reasonable caution. No specific Hazard

Storage: Out of direct sunlight below 25 deg C

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures: Not necessary

Respirators : Not necessary

Eye Protection : Goggles

Personal protective equipment:

Gloves : Yes

Safety glasses : Yes

Occupational Exposure Limits – Hazardous Ingredients : 1ppm



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark Blue Sachet  
Form: Liquid  
Colour: Dark Blue  
Odour: Almonds  
PH (Value): 5  
Boiling Point: 101c  
Melting Point: Not Available  
Flash Point: none  
Flammable Limits: Non Flammable  
Auto Ignition Temperature: None  
Explosive Properties: None  
Oxidising Properties: None  
Vapour Pressure (mm Hg):0 KPA @ 20 Deg  
Density (g/ml): Unknown  
Solubility (Water): Yes  
Solubility (Other): Alcohol  
Partition Coefficient: Not Available

10. STABILITY AND REACTIVITY

Hazardous Reactions: None  
Hazardous Decomposition Product(s): None  
Conditions to avoid: Direct Sunlight  
Materials to avoid: Strong Alkaline

11. TOXICOLOGY INFORMATION

Inhalation (LC50): Not Available  
Skin Contact (Dermal – LD50): Not Available  
Eye Contact: Not Available  
Ingestion (Oral – LD50) Not Available

12. ECOLOGICAL INFORMATION

Environmental Hazards:  
Persistence and Degradation: Not Available  
Toxicity: Not Available  
Effect on Effluent Treatment: Minimal impact



13. DISPOSAL CONSIDERATIONS

Product & contaminated packaging: Dilute with water, contain and remove to waste site.

14. TRANSPORT INFORMATION

IATA: Unclassified  
ADR: Unclassified  
IMO: Unclassified  
UN NO.: Unclassified

15. REGULATORY INFORMATION

Classification and labeling Danger symbol: Not Available  
Danger Label: Not Required  
Safety phrases:

16. OTHER INFORMATION

The statements contained herein are offered for informational purpose only and are based upon technical data. G- Force Chemicals Cc believes them to be accurate to the best of our knowledge, but does not purport to be all-inclusive. The above stated product is intended for use only by persons having the necessary technical skills and facilities for handling the product at their discretion and risk. Since conditions and manner of use are outside our control, we (G-Force Chemicals Cc) make no warranty of merchantability or any such warranty, express or implied with respect to information and we assume no liability resulting from the above product or its use. Users should make their own investigations to determine the suitability of information and product for their particular purposes.