



G-FORCE CHEMICALS

MATERIAL SAFETY DATA SHEET (MSDS) FORMAT

1. **IDENTIFICATION OF THE SUBSTANCE / COMPANY DETAILS**

Product Name: G-force Bio-Bloo
Product Information: Biodegradable Deodorant for Portable Toilets
Company Name: Sanitation For Africa / G-Force Chemicals
Phone Number: 076 074 4898

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°C



8. EXPOSURE CONTROL / PERSONL 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

Vapur Pressure (mm Hg): 0KPA & 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. 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.