

## GLYPHO-BOOST

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

**Product Name:** GLYPHO-BOOST  
Buffer / Adjuvant  
**UN No.** Not regulated  
**Supplier:** Villa Crop Protection (Pty) Ltd.  
PO Box 801, Kempton Park  
1620, South Africa  
**Telephone:** (011) 396 2233  
**Fax:** (011) 396 4666  
**Website:** [www.villacrop.co.za](http://www.villacrop.co.za)

#### Emergency telephone numbers:

#### 24 Hr Transport / Spill emergency no:

Envirosure. +27 31 205 4918  
(Hazcall24) +27 86 044 4411  
(Client: Villa Crop Protection)

Griffon Poison Information Centre +27 82 446 8946  
(Client: Villa Crop Protection)

#### Poisoning Emergency telephone numbers:

Griffon Poison Information Centre +27 82 446 8946  
Poisons Information Centre +27 861 555 777

#### Villa Crop Protection Emergency number:

**National Safety, Health and Environmental Manager:**  
+27 63 698 0668

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Common Name:** Ammonium sulphate  
**TSCA/CAS No.:** 7783-20-2  
**Chemical family:** ammonium salt  
**Use:** enhances activity and compatibility of glyphosate  
**Formulation:** Ammonium sulphate 500 g/l  
Aqueous water conditioner

### 3. HAZARD IDENTIFICATION

#### 3.1 Human Health

#### Poisoning signs and symptoms:

Sore throat, abdominal pain, nausea or vomiting.

**Skin contact:** Prolonged contact may cause some irritation.

**Eye contact:** Direct eye contact has been shown to cause temporary eye irritation.

**Ingestion:** If swallowed may cause gastro-intestinal irritation, sore throat, nausea or vomiting.

**Inhalation:** Not considered a hazard though inhalation of spray mist but should be avoided.

**Long term effects:** No adverse effects are known.

#### 3.2 Environment

**Hazards:** Avoid spillage into watercourses or water bodies. Does not pose a hazard to animal life.

**Biodegradability:** Breaks down very rapidly in the soil.

**Disposal Method:** Approved landfill site or use as a fertilizer in agricultural situation.

#### 3.3 Other

#### Fire, heating and detonation:

Not combustible. Thermal decomposition products include sulphur oxides and ammonia. Exposure to high temperatures could result in emission of toxic nitrogen oxide gases. Can produce thermally sensitive mixtures with potassium chlorate and potassium nitrate and can enhance the explosive properties of ammonium nitrate.

### 4. FIRST AID MEASURES AND PRECAUTIONS

**Skin contact:** Remove contaminated clothing, rinse skin with plenty of soap and water.

**Eye contact:** Flush for 15 minutes with copious amounts of water. If irritation continues, get medical attention.

**Ingestion:** Seek medical advice.

**Inhalation:** Remove patient to fresh air.

**Emergency antidote:** None applicable. Treat symptomatically.

**Medical advice:** Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Flammability:** Not flammable

**Flash point:** None

**Explosivity:** Not explosive

**Extinguishing media:** Non-combustible. May give rise to dangerous fumes if strongly heated.

Fire fighters should wear protective clothing and breathing apparatus.

Avoid breathing toxic vapours. Keep up-wind.

Call Fire Brigade. Avoid any fumes (toxic). Stand up-wind of the fire. Wear self-containing breathing apparatus if fumes are being entered. Use plenty of water. Open doors and windows of the store to give maximum ventilation. If spillage enters any drains or watercourse, inform the local authorities immediately.

### 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Wash away small spills with water. Larger quantities absorb earth or sand and place into containers for disposal.

### 7. HANDLING AND STORAGE REQUIREMENTS

#### Handling:

Relatively safe to handle, but avoid contact with eyes and skin. Treat with usual precautions due for crop protection chemicals. Do not mix, store or apply in galvanised or unlined steel drum.

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## Storage:

Store in original storage containers.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

### Occupational exposure limits:

No specific official limit.

### Precautionary and engineering measures:

Provide ventilation where necessary.

### Personal Protection:

Wear suitable gloves when handling the product over long periods. After handling product, wash hands and observe good hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear solution.

**Odour:** Odourless

**Flash point:** Not explosive

**Vapour pressure (mPa):** Non-volatile

**pH:** 4.9 to 5.5

**Density:** 1.21 g/l

**Solubility:** Infinite (30°C)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable in original closed drum. Decomposes rapidly in soil.

**Conditions to avoid:** Contamination by incompatible materials.

Welding or hot work to equipment and pipelines or plant, which may have contained fertilizer without first washing thoroughly to remove all fertilizer.

### Materials to avoid:

Alkalis, strong acids, copper and its alloys.

### Hazardous reaction / decomposition products:

May emit toxic fumes of nitrous oxides if heated in a fire.

### Incompatibility:

Containers may be stored together with most other storage items.

## 11. TOXICOLOGICAL INFORMATION

**Acute oral LD<sub>50</sub>:** < 5000 mg/kg.

**Acute dermal LD<sub>50</sub>:** < 4000 mg/kg.

**Special hazards:** None.

**Occupational exposure limits:** None set.

## 12. ECOLOGICAL INFORMATION

**Persistence / Degradability:** Decomposes rapidly in soil.

**Bio-accumulation:** Not persistent.

**Ecotoxicity:** None known.

## 13. DISPOSAL CONSIDERATION

Approved landfill or use in agricultural situation as on label.

## 14. TRANSPORT INFORMATION

Not classed i.e. considered non-hazardous material according to UN Orange Book and international transport codes, e.g. RID (rail), ADR (road) and IMDG (sea).

### Transport

Wedge drums tightly to avoid movement.

## 15. REGULATORY INFORMATION

### EEC Directives

76/116/EEC (Law relating to fertilizers)

## 16. OTHER INFORMATION

**Packaging:** Packed in 5, 10, 20, and 25 litres plastic containers/drums and labelled according to South African regulations and guidelines.

**Disclaimer:** The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard use of the product, nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

## END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.