

**SECTION 1 - PRODUCT & COMPANY IDENTIFICATION**

ARYSTA LifeScience South Africa (Pty) Ltd  
Co. Reg. No.: 2009/019713/07  
7 Sunbury Office Park, off Douglas Saunders Drive  
La Lucia Ridge, 4019

Tel: 031 514 5600  
Fax: 031 514 5611  
e-mail: [info@arysta.co.za](mailto:info@arysta.co.za)  
Web address: [arystalifescience.co.za](http://arystalifescience.co.za)

Product Name: Kilo Max 700 WSG  
Product Use: Herbicide  
Creation Date: November 2011  
Revision Date: October 13

24 Hr Emergency Number: 082 771 2712  
In case of Poisoning:  
Poison Information Centre 082 446 8946  
Tygerberg Hospital: (021) 931 6129  
Poison Emergency Enquiries (021) 689 5227  
In case of Spillage:  
HAZMAT: 0800 147 112

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

Common Name: Glyphosate  
Chemical Name: N-(phosphonomethyl)glycine, IPA salt  
Chemical family: Inorganic copper salt  
Use: Herbicide with preventative action.  
Formulation: C<sub>6</sub>H<sub>17</sub>N<sub>2</sub>O<sub>5</sub>P

**Hazardous ingredients of toxicological concern:**

<u>Inert:</u>	<u>concern:</u>	<u>% present:</u>
Glyphosate	harmful	>70 % v/v

RISK-PHASE(S) R20/22, R36

**SECTION 3 - HAZARD IDENTIFICATION**

Harmful if swallowed.  
May cause moderate eye irritation.  
Non-irritating to skin.  
Minimally toxic by inhalation.

**SECTION 4 - FIRST AID MEASURES AND PRECAUTIONS****Inhalation:**

Remove patient from exposure, keep warm and at rest. Obtain medical attention.

**Skin contact:**

Immediately take off all contaminated clothing. Wash skin immediately with cold water, followed by soap and water. Such action is essential to minimize contact with skin. Contaminated clothing should be washed before re-use.

**Eye contact:**

Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.

**Ingestion:**

If swallowed seek medical advice immediately and show this Data Sheet.

**Further Medical treatment:**

Symptomatic treatment and supportive therapy as indicated.

**SECTION 5 - FIRE-FIGHTING MEASURES**

Keep fire exposed containers cool by spraying with water.

**Extinguishing Media:**

For small fires, use foam, carbon dioxide, dry powder or halon extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

**Fire Fighting Protective Equipment:****MATERIAL SAFETY DATA SHEET**

A self-contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Ensure suitable personal protection during removal of spillage. This means wearing eye protection, chemically resistant gloves, boots and coveralls. Adsorb spillage onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains. Spillage or uncontrolled discharges into water courses must be alerted to the Department of Water Affairs/Environment.

### Waste disposal:

If wastes cannot be used according to label instructions or chemically reprocessed, dispose of in a landfill approved for pesticide disposal or bury under at least 500 mm of soil in a non-crop, non-pasture area away from water sources of homes. Dispose of in accordance with all applicable local and state laws.

### Containers:

Emptied containers retain material residue. Observe all labelled safeguards until container is cleaned, reconditioned or destroyed.

## SECTION 7 - HANDLING AND STORAGE REQUIREMENTS

### HANDLING:

Read the label before use. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

### STORAGE:

Store under lock and key. Keep in original container, tightly sealed. Store in a cool, dry place away from farm feeds and food stuff. Do not store or apply this product in galvanized or unlined steel (except stainless steel) containers or spray tanks.

## SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

### Exposure standards:

The ADI for Glyphosate is set at 0.3mg/kg/day. The corresponding NOEL is set at 30 mg/kg/day.

### Engineering controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

### Respiratory protection:

It is usually safe to not use a dust mask or respirator protection on account of this product.

### Protective Gloves:

Impermeable elbow length PVC gloves should be worn to prevent irritation.

### Eye protection:

When preparing product for use, wear face shield or goggles.

### Clothing:

When using controlled droplet applicator, wear protective waterproof clothing and impervious footwear

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	: Water soluble granules.
Colour	: Brown to off-white free flowing granules
Odour	: Slight amine odour
Bulk density	: 0.70 ± 0.01
Flammability	: None
Flash point	: None
Solubility	: Soluble
Wettability	: <10 secs

## SECTION 10 - STABILITY AND REACTIVITY

### Stability:

Stable for at least 5 years under normal conditions of warehouse storage.

### Hazardous decomposition Product(s):

None

### Materials to avoid:

No particular incompatibilities

## MATERIAL SAFETY DATA SHEET

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>Inhalation:</b>	Unlikely to cause harmful effects under normal conditions of handling and use. Rat inhalation LC <sub>50</sub> mg/l/hour >12.2
<b>Skin contact:</b>	Non-irritant to rabbit skin. It is not a skin sensitizer. Dermal LD <sub>50</sub> (calculated): >8000 mg/kg (rabbit)
<b>Eye contact:</b>	Moderate irritant to rabbit eyes.
<b>Ingestion:</b>	Harmful if swallowed. Acute Oral LD <sub>50</sub> : 10740 mg/kg (rat)

**SECTION 12 - ECOLOGICAL INFORMATION**

<b>Accumulation:</b>	The product is not expected to significantly bio-accumulate.
<b>ECOTOXICOLOGY:</b>	Not expected to be toxic to aquatic organisms and/or other wildlife.

**SECTION 13 - DISPOSAL CONSIDERATION****Pesticide disposal:**

Open dumping or burning of this fertilizer is prohibited. Waste resulting from the use of this product that cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

**Container disposal:**

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dump site. Prevent contamination of food, feedstuffs, drinking water and eating utensils. Comply with local legislation applying to waste disposal.

**SECTION 14 - TRANSPORT INFORMATION**

<b>South Africa:</b>	
<b>UN no:</b>	Not classified as dangerous goods for any mode of transport.

**SECTION 15 - REGULATORY INFORMATION**

<b>Symbol:</b>	
<b>R phrases:</b>	
R20/22	Harmful by inhalation or if swallowed
R36	Irritating to eyes.
<b>Safety phrases:</b>	
S2	Keep out of reach of children.

**SECTION 16 - OTHER INFORMATION****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 use of the product. It is not applicable to unusual or non-standard uses 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.

**MATERIAL SAFETY DATA SHEET**