

# SAFETY DATA SHEET ACCORDING TO 1907/2006/EC, 453/2010/EU, 2015/830/EU (REACH)

## SULFOSTAR 800 SC

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## **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier Product Name Product description Product Type

: SULFOSTAR 800 SC : Yellow Suspension Concentrate Fungicide : Suspension Concentrate

**1.2** Relevant identified uses of the substance or mixture and uses advised against Relevant uses: Fungicide

Uses advised against: All uses not specified in this section or in section 7.3

- 1.3 Details of the supplier of the safety data sheet Ag-Chem Africa (Pty) Ltd 288 Mundt Street Waltloo Pretoria South Africa Tel: +27(0)12 803 0145 Fax: +27(0)12 803 8418
- 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number: SOUTH AFRICA<br/>Griffon Poison Information Centre<br/>(24 Hour Poisoning Emergency Helpline)<br/>+27(0)82 446 8946

#### **SECTION 2: Hazards identification**

 Classification of the substance or mixture: CLP Regulation (EC) no 1272/2008: Classification of this product has been carried out in accordance with CLP Regulation (EC) no 1272/2008.

Skin Irrit. 2: Skin irritation, Category 2, H315



#### 2.2 Label elements CLP Regulation (EC) no 1272/2008:

#### Hazard pictogram(s):



Signal word Hazard statement(s)

: Warning : H315 - Causes skin irritation

#### Precautionary statement(s)

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/face shield/eye protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P321 - Specific treatment (see Section 4 on this label).

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before use.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment

#### 2.3 Other hazards

Non-applicable

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

Chemical description: Sulphur + Additive & Inerts Component(s):

Chemical Name:	Sulfur
CAS:	7704-34-9
EC:	231-722-6
Index:	016-094-00-1
REACH:	01-2119487295-27
Formulation:	Sulfur 800 g/ł

## **SECTION 4:** First Aid Measures

#### 4.1 Description of first aid measures

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation:

Remove to fresh air. If not breathing gives artificial respiration. If breathing is difficult, give oxygen. Do NOT give mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

#### By skin contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

#### By eye contact:

Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove any contact lenses after 5 minutes. Get medical attention if necessary.

#### By ingestion / aspiration:

Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing. Induce vomiting immediately as directed by medical personnel. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Qualified medical personnel should perform administration of oxygen. Seek medical advice if necessary.

**4.2 Most important symptoms and effects, both acute and delayed** No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: None.
Specific treatments	: Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1 Fire Extinguishing Media

#### Suitable extinguishing media:

Extinguish small fires with carbon dioxide, dry powder or alcohol-resistant foam. Water spray or fog can be used for larger fires or cooling of unaffected stock.

#### Unsuitable extinguishing media:

Do not use a solid water stream as it may scatter and spread fire.

## 5.2 Special hazards arising from the substance or mixture Hazards from the substance or mixture:

Fire may produce irritating or poisonous vapours, mists or other products of combustion.

#### Hazardous thermal decomposition products:

No information available.

#### 5.3 Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures:

Ventilate area of leak or spill. Wear appropriate personal protective equipment.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

#### 6.3 Methods and materials for containment and cleaning up

#### Spills:

Absorb with sand or other non-combustible absorbent material and put in a suitable container for reclamation or disposal.

#### Large Spills:

Dyke far ahead of liquid spills for later disposal. Prevent entry of the substance into waterways, sewers, basements or confined areas.

#### 6.4 Reference to other sections:

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

- B.- Technical recommendations for the prevention of fires and explosions Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.
- C.- Technical recommendations to prevent ergonomic and toxicological risks Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.
- D.- Technical recommendations to prevent environmental risks It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

#### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage Minimum Temp.: 5 °C Maximum Temp.: 30 °C Maximum time: 36 Months

B.- General conditions for storage Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

#### 7.3 Specific end use(s)

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Substances whose occupational exposure limits have to be monitored in the work environment. Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3.

#### DNEL (Workers):

Non-applicable

## DNEL (General population):

Non-applicable

## PNEC:

Non-applicable

#### 8.2 Exposure controls

#### Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

#### Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

#### Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Possible: safety glasses with side-shields

#### **Skin protection**

#### Hand protection:

Protective gloves against minor risks.

#### **Body protection:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection:**

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

#### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. No significant release into the air is expected.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

For complete information, please refer to product datasheet.

#### Appearance

Physical state Colour Odour	: Suspension : Yellow : Pungent odour
<u>Volatility:</u> Boiling point at atmospheric pressure Vapour pressure at 20 °C Vapour pressure at 50 °C Evaporation rate at 20 °C	: > 100°C : Non-applicable * : Non-applicable * : Non-applicable *
Product description: Density at 20 °C Relative density at 20 °C Dynamic viscosity at 20 °C Kinematic viscosity at 20 °C Kinematic viscosity at 40 °C pH Vapour density at 20 °C	: 1.40 g/m <sup>3</sup> : Non-applicable * : Non-applicable * : Non-applicable * : Non-applicable * : 6.2 – 6.5 : Non-applicable *
Partition coefficient n-octanol/water 20 °C	: Non-applicable *

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Solubility in water at 20 °C	: Completely soluble in water.
Solubility properties	: Non-applicable *
Decomposition temperature	: Non-applicable *
Melting point/freezing point	: 115°C
Explosive properties	: No explosive properties
Oxidising properties	: Non-applicable *
<b>Flammability:</b> Flash Point Autoignition temperature Lower flammability limit Upper flammability limit	: Non Flammable (168ºC) : 260ºC : Non-applicable * : Non-applicable *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

#### 9.2 Other information

No additional information.

### **SECTION 10:** Stability and reactivity

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:** Will not occur.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Not applicable	Not applicable	Avoid strong oxidizers, alkalis or strong bases

#### **10.6** Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: oxides of sulphur.

## **SECTION 11:** Toxicological information

#### 11.1 Information on toxicological effects

The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

The element sulphur is a natural component of the environment. Sulphur has been known and used as a pesticide since very early times, and has been registered for pesticide use in the United States since the 1920's. Sulphur is known to be of low toxicity, and poses very little if any risk to human health. The use of sulphur as a pesticide is not an environmental concern, because it becomes incorporated into the natural sulphur cycle.

A.- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

C- Contact with the skin and the eyes (acute effect):

Contact with the skin: Based on available data, the classification criteria are met. Refer to Section 3.
Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not

contain substances classified as dangerous for this effect. For more information see section 3.

#### E- Sensitizing effects:

Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. **Other information:** Non-applicable

#### **SECTION 12: Ecological information**

The experimental information related to the eco-toxicological properties of the product itself is not available.

#### 12.1 Toxicity:

Sulfur				
	Genus			
LC50	866 mg./L (96 h)	Brachydanio rerio	Fish	
EC50	Non-applicable	Non-applicable	Non-applicable	

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#### 12.2 Persistence and degradability:

The element sulphur is a natural component of the environment. Sulphur has been known and used as a pesticide since very early times, and has been registered for pesticide use in the United States since the 1920's. Sulphur is known to be of low toxicity, and poses very little if any risk to human health. The use of sulphur as a pesticide is not an environmental concern, because it becomes incorporated into the natural sulphur cycle.

- **12.3 Bioaccumulative potential:** Not available.
- **12.4 Mobility in soil:** Not available
- 12.5 Results of PBT and vPvB assessment: Non-applicable

#### **12.6** Other adverse effects: No known significant effects or critical hazards.

## **SECTION 13:** Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

#### Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

#### Hazardous waste:

Non-hazardous waste.

#### Packaging

#### Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### **Special precautions:**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14:** Transport information

	Land transport (ADR/RID)	Inland waterway transport (AND/ADNR)	Sea Transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1 UN Number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	Non-applicable	Non-applicable	Non-applicable

## **SECTION 15:** Regulatory information

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture: Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable Active substances not included in Annex I under Regulation (EU) No 528/2012: Non-applicable REGULATION (EU) No 689/2012, in relation to the import and export of hazardous chemical products: Non-applicable

# Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH,etc ....):

Non-applicable

#### Other legislation:

Law No.360 / 2003 on the dangerous substances and preparations

Law nr.349 / 2007 regarding the reorganization of the institutional framework for chemicals management Law no.249 / 2011 to amend article 4 of Law nr.349 / 2007 on the reorganization of the institutional framework chemicals management

Government Decision no. 477/2009 on the establishment of penalties for infringements of the provisions of Regulation (EC) No. 1.907 / 2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45 / EC and repealing Regulation (EEC) No. 793/93 and Regulation (EC) no. 1.488 / 94 Commission and Council Directive 76/769 / EEC and Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC Commission Law no.254 / 2011 amending article 26 of Law No.360 / 2003 on the preparations and substances dangerous GD nr.662 / 2011 repealing Government Decision no. 347/2003 regarding restrictions on the marketing and use of certain dangerous substances and preparations.

Emergency Ordinance no.60 / 2013 for completing art. 4 para. (1) of Law no. 349/2007 on the reorganization framework institutional management of chemicals GD Nr.1408 / 2008 and Annexes 1-6 on

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classification, packaging and labeling of dangerous substances GD nr.937 / 2010 and Annexes 1 to 5 on the classification, packaging and labeling in the marketing of dangerous preparations GD no.122 / 2010 on the penalties applicable to infringements of the provisions of Regulation (EC) no.1272 / 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC) no.1907 / 2006 GD no.398 / 2010 establishing measures to enforce the provisions of Regulation (EC) nr.1272 / 2008 on classification, labeling and packaging of substances.

Decision no. 1218/2006 establishing minimum safety requirements for ensuring occupational health and protection workers from risks related to chemical agents.

Law no. 319/2006 - Law on safety and health at work

GD 621/2005 on the management of packaging and packaging waste.

GD 1872/2006 amending and supplementing Government Decision 621/2005 on the management of packaging and packaging waste

The Waste Regulations 2011, 2011 No. 988.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### 15.2 Chemical Safety Assessment:

The supplier has not carried out evaluation of chemical safety.

#### **SECTION 16:** Other information

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

# Modifications related to the previous security card which concerns the ways of managing risks. : Non-applicable

#### Texts of the legislative phrases mentioned in section 2:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

#### Texts of the legislative phrases mentioned in section 3:

Non-applicable

#### CLP Regulation (EC) nº 1272/2008:

Skin Irrit. 2: H315 - Causes skin irritation

#### **Classification procedure:**

Non-applicable

#### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

http://esis.jrc.ec.europa.eu http://echa.europa.eu http://eur-lex.europa.eu

#### Relevant P-, H- and EUH-phrases (number and full text)

H315 - Causes skin irritation P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/face shield/eye protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P321 - Specific treatment (see Section 4 on this label).

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before use.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment

#### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol–water partition coefficient KOC: PARTITION COEFFICIENT OF ORGANIC CARBON

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