



# SAFETY DATA SHEET

## Sphinx Star WDG

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Version 1

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## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

## Sphinx Star WDG

Synonyms Chlorothalonil 400 Dimethomorph 80 WDG  
Pure substance/mixture Mixture  
Formula WDG

### Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Fungicide  
Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier Address ADAMA SOUTH AFRICA (PTY) LTD  
Ground Floor, Simeka House  
The Vineyards Office Estate  
99 Jip de Jager Drive  
Bellville 7530

For further information, please contact

Email address SDS@ADAMA.COM

### Emergency Telephone

Emergency Telephone + 27 82 446 8946  
+ 27 86 155 5777  
+ 27 21 982 1460

## Section 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists) Category 2 - (H330)  
Carcinogenicity Category 2 - (H351)  
Specific target organ toxicity (single exposure) Category 3 - (H335)  
Acute aquatic toxicity Category 1 - (H400)  
Chronic aquatic toxicity Category 1 - (H410)

### Label Elements

### Hazard pictograms

**Signal word**

Danger

**Hazard Statements**

H330 - Fatal if inhaled  
 H335 - May cause respiratory irritation  
 H351 - Suspected of causing cancer  
 H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements**

P102 - Keep out of reach of children  
 P201 - Obtain special instructions before use  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P501 - Dispose of contents/ container to an approved waste disposal plant

**Other Hazards**

No information available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Chlorothalonil	38 - 42	1897-45-6	217-588-1	Acute Tox. 2 (H330) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Carc. 2 (H351)	M=10 M=10
Dimethomorph	6 - 10	110488-70-5	404-200-2	Aquatic Chronic 2 (H411)	
Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt	2 - 3	102980-04-1		Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	

### Section 4: FIRST AID MEASURES

**First aid measures****General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!.

**Inhalation**

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Ingestion** Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

**Self-protection of the first aider** Use personal protective equipment as required.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** None known.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**Section 5: FIRE-FIGHTING MEASURES**

**Extinguishing media**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

No information available.

**Special hazards arising from the substance or mixture**

No specific hazard known.

**Advice for firefighters**

Wear self-contained breathing apparatus and protective suit  
Wear self contained breathing apparatus for fire fighting if necessary

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

**For emergency responders**

Use personal protection recommended in Section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up**

**Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**Reference to other sections**

**Other Information**

See also section 8,13

**Section 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling**

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**Specific end use(s)**

**Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**National occupational exposure limits**

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Chlorothalonil 1897-45-6					Skin

**Exposure controls**

**Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection**

Tight sealing safety goggles.

**Hand Protection**

Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

**Body Protection**

Suitable protective clothing, Gloves made of plastic or rubber, Suitable protective clothing, Apron.

**Respiratory protection**

Use only with adequate ventilation.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before reuse.

**Environmental exposure controls**

Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from

entering drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
Physical state	: Solid		
Color	: light brown		
Odor	: characteristic		
Odor threshold	: No data available		
pH	: 6 - 9		
Melting point/freezing point °C	: No data available		
Boiling point/boiling range °C	: No data available		
Flash point °C	: > 130		
Evaporation rate	: Not Applicable		
Flammability (solid, gas)	: Not Applicable		
Upper/lower flammability or explosive limits	: No data available		
Vapor pressure kPa	: No data available		
Vapor density	: No data available		
Relative density	: 0.570 - 0.640		
Solubility(ies) mg/l	: No data available		
Partition Coefficient (n-octanol/water) Log Pow	:		See Section 12 for more information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm <sup>2</sup> /s 40 °C	: Not Applicable		
Explosive properties	: Not an explosive		
Oxidizing properties	: No data available		
<b>Other Information</b>			
Bulk density g/ml	:		
Surface tension mN/m	: Not Applicable		

## Section 10: STABILITY AND REACTIVITY

### Reactivity

Not available.

### Chemical stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible Materials

No information available

### Hazardous Decomposition Products

None under normal use conditions.

## Section 11: TOXICOLOGY INFORMATION

### Information on toxicological effects

#### Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: >2000	Rat	OECD 423	
Dermal LD50 mg/kg	: >2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: 0.37	Rat	OECD 403	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization	: Not a skin sensitizer	Guinea pig	OECD 406	

#### Chronic toxicity

##### Germ cell mutagenicity

###### Chemical Name

Chlorothalonil	: Not classified
Dimethomorph	: Not classified

##### Carcinogenicity

###### Chemical Name

Chlorothalonil	: Suspected of causing cancer
Dimethomorph	: Not Carcinogenic

##### Reproductive toxicity

###### Chemical Name

Chlorothalonil	: Not toxic for the reproductive system
Dimethomorph	: Not toxic for the reproductive system

##### STOT - single exposure

###### Chemical Name

Chlorothalonil	: No data available
Dimethomorph	: Not available

##### STOT - repeated exposure

###### Chemical Name

Chlorothalonil	: No data available
Dimethomorph	: Not available

##### Aspiration hazard

###### Chemical Name

Chlorothalonil	: No data available
Dimethomorph	: Not available

## Section 12: ECOLOGICAL INFORMATION

### Toxicity

#### Aquatic toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Acute toxicity				
Fish 96-hour LC50 mg/l	: 0.118	Rainbow trout	OECD 203	
Crustacea 48-hour EC50 mg/l	: 0.34	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 0.54	Selenastrum capricornutum	OECD 201	
Other plants EC50 mg/l	:			No data available

<b>Chronic aquatic toxicity</b>	<b>Values</b>	<b>Species</b>	<b>Method</b>	<b>Remarks</b>
<b>Fish NOEC mg/l</b>	: No data available			
<b>Crustacea NOEC mg/l</b>	: No data available			
<b>Algae NOEC mg/l</b>	: No data available			
<b>Other plants NOEC mg/l</b>	: No data available			

**Terrestrial Toxicity**

<b>Birds Oral LD50 mg/kg</b>				
<b>Chemical Name</b>				
Dimethomorph	: >2000	Bobwhite quail		

**Bees Oral LD50 µg/bee**

<b>Chemical Name</b>				
Chlorothalonil	: > 100			
Dimethomorph	: >32.4			

**Persistence and degradability**

<b>Abiotic Degradation</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Water DT50 days</b>			
<b>Chemical Name</b>			
Dimethomorph	: ----		Stable pH 4-9

**Soil DT50 days**

<b>Chemical Name</b>			
Dimethomorph	: 41-96	OECD 307	

**Biodegradation**

<b>Chemical Name</b>			
Dimethomorph	: Not readily biodegradable	OECD 301B	

**Bioaccumulative potential**

<b>Partition Coefficient</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>(n-octanol/water) Partition Coefficient (n-octanol/water) Log Pow</b>			
<b>Chemical Name</b>			
Dimethomorph	: 2.75	OECD 107; EEC A.8	24.1° C

**Bioconcentration factor (BCF)**

<b>Chemical Name</b>			
Dimethomorph	:		No data available

**Mobility in soil**

<b>Adsorption/Desorption</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Chemical Name</b>			
Dimethomorph	: 422-1242	OECD 106	Koc

**Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB

**Other adverse effects**

No information available.

<b>Section 13: DISPOSAL CONSIDERATIONS</b>
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**Waste treatment methods**

**Waste from residues/unused products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal.

**Other Information** Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORTATION INFORMATION**

**IMDG/IMO**

**UN/ID No \*** 2588  
**Proper shipping name** PESTICIDE, SOLID, TOXIC, N.O.S. ( Chlorothalonil Dimethomorph )  
**Hazard Class** 6  
**Packing Group** II  
**Marine pollutant** Yes  
**Special precautions for user**

**RID/ADR**

**UN/ID No \*** 2588  
**Proper shipping name** PESTICIDE, SOLID, TOXIC, N.O.S. ( Chlorothalonil Dimethomorph )  
**Hazard Class** 6  
**Packing Group** II  
**Environmental hazard** Yes  
**Special precautions for user**

**ICAO/IATA**

**UN/ID No \*** 2588  
**Proper shipping name** PESTICIDE, SOLID, TOXIC, N.O.S. ( Chlorothalonil Dimethomorph )  
**Hazard Class** 6  
**Packing Group** II  
**Environmental hazard** Yes  
**Special precautions for user**  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable



(Bad file name)

\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

**Section 15: REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Section 16: OTHER INFORMATION**



**Full text of H-Statements referred to under sections 2 and 3**

H411 - Toxic to aquatic life with long lasting effects  
H330 - Fatal if inhaled  
H318 - Causes serious eye damage  
H317 - May cause an allergic skin reaction  
H335 - May cause respiratory irritation  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H351 - Suspected of causing cancer if inhaled  
H412 - Harmful to aquatic life with long lasting effects

**Revision Note**

Changes made to the last version are labeled with this sign \*\*\*.

**List of Acronyms**

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CAS Number - Chemical Abstracts Service number  
EC Number - EINECS and ELINCS Number  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
OECD - Organization for Economic Co-operation and Development  
PBT - Persistent, Bioaccumulative and Toxic substance  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
STOT - Specific Target Organ Toxicity  
vPvB - Very Persistent and Very Bioaccumulative

**Disclaimer**

**The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**