SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Sphinx Star WDG

Revision date 14-Oct-2022 **Version** 2 **Supersedes Date:** 05-Sep-2019 **Product Code(s)** FNG56876-27

Print Date 14-Oct-2022 ADM.01402.F.1.A 9502095

1. Identification

Product identifier

Sphinx Star WDG

Other means of identification

Synonyms	Chlorothalonil 400 Dimethomorph 80 WDG
Formulation type	WDG
Registration Number(s)	L9084
Pure substance/mixture	Mixture

Recommended use of the chemical and restrictions on use

Recommended use	Fungicide; Professional use
Uses advised against	No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier

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

Emergency telephone number

Emergency Telephone

+27 82 446 8946 (Griffon Poison Centre)
+27 86 155 5777 (Tygerberg Poison Information Centre)
+27 86 100 6366 and +27 83 253 6618 (SPILL TECH)

E-mail address SDS@ADAMA.COM

2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists)	Category 2 - (H330)
Carcinogenicity	Category 2 - (H351)
Reproductive toxicity	Category 1B - (H360)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

Label elements

Signal word Danger

Hazard pictograms

Hazard statements

H330 - Fatal if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H360 - May damage fertility or the unborn child
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P102 - Keep out of reach of children
P203 - Obtain, read and follow all safety instructions before reuse
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P284 - Wear respiratory protection
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P316 - Get emergency medical help immediately
P318 - If exposed or concerned get medical advice.
P319 - Get medical help if you feel unwell
P320 - Specific treatment is urgent (see supplemental first aid instructions on this label)
P391 - Collect spillage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

Other hazards

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

3. Composition/information on ingredients

Substance

Not applicable

Mixture

Synonyms Chlorothalonil 400 Dimethomorph 80 WDG

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor

Chlorothalonil	1897-45-6	38-42	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
Talc	14807-96-6	14-19	238-877-9		
Dimethomorph	110488-70-5	6-10	404-200-2	Aquatic Chronic 2 (H411) Repr. 1B (H360)	
Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt	102980-04-1	1-4		Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	
disodium maleate	371-47-1	< 1	206-738-1	Acute Tox. 4 (H302) Skin Sens. 1B (H317) STOT SE 3 (H335)	

Full text of H- and EUH-phrases: see section 16

Additional information
Note: The other ingredients do not cause or contribute towards the correct GHS classification of Sphinx extra WDG and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021. Regulation 14(b), not listed in the table above.

4. First-aid measures

Description of necessary first aid measures

General advice In case of accident or if you feel unwell, seek medical advice immediately (show the label where 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.

For emergency responders

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

Most important symptoms/effects, acute and delayed

Symptoms None known.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the chemical No information available.

Specific/special fire-fighting measures

Specific/special fire-fighting measures No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

Preventive measures for safe handling

Advice on safe handling Avoid generation of dust. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

Precautions for safe handling

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical name	ACGIH TLV
Talc 14807-96-6	TWA: 2 mg/m³ particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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).

Eye/face protection Tight sealing safety goggles.

Skin and body protection Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

Information on basic physical and chemical properties

Property		Values	Method	Remarks
Appearance				
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	:	No data available		
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 Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	:	No data available	
Decomposition temperature °C	:	No data available	
Kinematic viscosity mm2/s 40 °C	:	Not applicable	
Explosive properties	:	Not an explosive	
Oxidizing properties	:	No data available	
Surface tension	:	No data available	
Particle Size	:	Not applicable	

Other information

Bulk density g/ml : Not applicable

10. Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Excessive heat.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on toxicological effects

Acute toxicity

		Values	Species	Method	Remarks
Oral LD50 mg/kg	:	> 2000	Rat	OECD 423	
Dermal LD50 mg/kg	:	> 2000	Rat	OECD 402	
Inhalation LC50 LC50	:	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	
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 : H360F - May damage fertility

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

12. Ecological information

Ecotoxicity

Aquatic toxicity

Acute toxicity		**Values**	**Species**	**Method**	**Remarks**
Fish 96-hour LC50 mg/l	:	0.118	Oncorhynchus mykiss	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			

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

Terrestrial Toxicity
Birds Oral LD50 mg/kg
Chemical name
Dimethomorph : >2000 Bobwhite quail

Bees Oral LD50 µg/bee
Chemical name

Chlorothalonil	: > 100		
Dimethomorph	: >32.4		

Abiotic Degradation

Water DT50 days			
Chemical name			
Dimethomorph	: ----		Stable pH 4-9

Soil DT50 days			
Chemical name			
Dimethomorph	: 41-96	OECD 307	

Biodegradation			
Chemical name			
Dimethomorph	: Not readily biodegradable	OECD 301B	

Log Pow	**Values**	**Method**	**Remarks**
Chemical name			
Dimethomorph	: 2.75	OECD 107 EEC A.8	

Bioconcentration factor (BCF)			
Chemical name			
Dimethomorph	:		No data available

Adsorption/Desorption	**Values**	**Method**	**Remarks**
Chemical name			
Dimethomorph	: 422-1242	OECD 106	KOC

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

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

14. Transport information

ADR

14.1 UN number	UN2588
14.2 UN proper shipping name	PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil)
14.3 Transport hazard class(es)	6.1
Labels	6.1
14.4 Packing group	II
Description	UN2588, PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil), 6.1, II, (D/E), Environmentally Hazardous
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	61, 274, 648
Classification code	T7
Tunnel restriction code	(D/E)

RID

14.1 UN number	UN2588
14.2 UN proper shipping name	PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil)
14.3 Transport hazard class(es)	6.1

Labels	6.1
14.4 Packing group	II
Description	UN2588, PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil), 6.1, II, Environmentally Hazardous
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	61, 274, 648
Classification code	T7

IMDG

14.1 UN number	UN2588
14.2 UN proper shipping name	PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil)
14.3 Hazard Class	6.1
14.4 Packing group	II
Description	UN2588, PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil), 6.1, II, Marine pollutant
14.5 Marine pollutant	P
Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	61, 274
EmS-No	F-A, S-A
IMDG Stowage and segregation	Category A SW2
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

IATA

14.1 UN number	UN2588
14.2 UN proper shipping name	PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	II
Description	UN2588, PESTICIDE, SOLID, TOXIC, N.O.S. (Chlorothalonil), 6.1, II
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	A3, A5
ERG Code	6L

* 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

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947).Pesticide Handling, Storage and Disposal Safety: SANS10206: 2020.Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010.Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

16. Other information

Full text of H-Statements referred to under section 3
H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H360 - May damage fertility or the unborn child
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Date of preparation of the SDS No data available

Revision date 14-Oct-2022

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

Key or legend to abbreviations and acronyms used in the safety data sheet

IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Abbreviations and 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

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification of the mixture	Classification procedure
H330 - Fatal if inhaled	Classification based on test data
H335 - May cause respiratory irritation	Classification based on Calculation method
H351 - Suspected of causing cancer	Classification based on Calculation method
H360 - May damage fertility or the unborn child	Classification based on Calculation method
H400 - Very toxic to aquatic life	Classification based on test data
H410 - Very toxic to aquatic life with long lasting effects	Classification based on Calculation method

Disclaimer
The information provided in this 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