with us you are growing goodness



MERIDIAN AGROCHEMICAL COMPANY (PTY) LTD P.O. Box 436, Modderfontein, 1645, SOUTH AFRICA

Tel +27 11 822 8509 | Fax +27 11 822 3494 | E-mail info@agritech.co.za | www.intelichem.co.za | www.agritech.co.za

REG NO: 2000/010819/07 **VAT NO:** 4120189206

Safety Data Sheet

1) PRODUCT AND COMPANY IDENTIFICATION

SOVRIN WP Reg. No: L 7600 (Act No 36 of 1947)

Product name:	SOVRIN WP
Other means of identification:	Dimethomorph 500 g/kg WP
Chemical Name:	(<i>E,Z</i>)-4-[3-(4-chlorophenyl)-3-(3,4-
	dimethoxyphenyl)acryloyl]morpholine (IUPAC)
Recommended use:	Fungicide
Restrictions on use:	Agriculture
UN No:	Not regulated
Distributed by:	MERIDIAN AGRITECH
	P O BOX 436
	MODDERFONTEIN
	TEL 011 8228509 FAX 0866901386
	MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL)
	012 664 1100
	TYGERBERG:021 931 6129
	RED CROSS 021 689 5227
	GRIFFON POISON CENTRE: 082 446 8946.
2) HAZARDS IDENTIFICATION	
Classification of the substance/mixture:	Acute Toxicity (Oral) Category 5
	Acute Toxicity (Dermal) Category 5
	Acute Toxicity (Inhalation) Category 4
	Skin Irritation Category 3
	Eye Damage Category 1
	STOT RE Category 3
	Aquatic Chronic Category 2
Label Elements: Globally Harmonized System, EU (GHS):	Pictograms:
	Signal Word: Danger
	Hazard Statements: H228: Flammable solid. H302: Harmful if swallowed. H315: Causes skin irritation. H318: Causes serious eye damage. H332: Harmful if inhaled. H335: May cause respiratory irritation. H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.
	Precautionary Statements: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe dust/mist/spray. P262: Do not get in eyes, on skin, or on clothing.

P272: Contaminated work clothing should not be allowed out of the workplace. **P273:** Avoid release to the environment. P280: Wear protective gloves, protective clothing, eye protection. P321: Specific treatment (See First aid measures on this label) P362+P364: Take off contaminated clothing and wash it before reuse. P405: Store locked up. According to Directive 67/548/EEC No. 1272/2008 [CLP] Hazard Symbol(s): Xn – Harmful N – Dangerous for the environment F+ - Flammable (individual components; see below) Xi - Irritant Risk - Phrase(s): R22: Harmful if swallowed. R36: Irritating to eyes. R41: Risk of serious damage to eyes **R51:** Toxic to aquatic organisms R53: May cause long-term adverse effects in the aquatic environment. Safety - Phrase(s): \$1/2: Keep locked up and out of the reach of children. **\$28:** After contact with skin, wash immediately with plenty of water. **S36:** Wear suitable protective clothing. S60: This material and its container must be disposed of as hazardous waste. S61: Avoid release to the environment. 3) COMPOSITION / INFORMATION ON INGREDIENTS 3.1 Substances: Not applicable 3.2 Mixtures: Chemical name Concentration CAS No. EC No. Classification according to Regulation EC 1272/2008 (CLP) Dimethomorph 500 g/kg 110488-70-5 404-200-2 Aquatic Chronic 2 (H411) 4% Sodium dodecyl 151-21-3 205-788-1 Acute Tox 4 (H302) sulphate Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412) Flam. Sol. 2 (H228) Acute Tox 4 (H332) STOT SE 3 (H335, inhalation) 4) FIRST AID MEASURES **Description of First-Aid Measures:** Inhalation: Remove victim to well ventilated area and loosen clothing around the neck. Keep person warm and at rest. If breathing is difficult, give oxygen. If breathing has stopped, perform artificial respiration. Get medical attention if necessary. Skin contact: Strip off all contaminated clothing and thoroughly wash body with soap and water. Persons providing first aid must wear gloves to avoid self-contamination. Get medical attention if necessary. Flush eyes with clean water for at least 15 minutes holding Eye contact: eyelids apart and call a physician immediately. Use safety goggles. If swallowed DO NOT induce vomiting unless advised to do Ingestion: so by a medical practitioner. If vomiting occurs spontaneously, keep airways clear. Never give anything per

mouth to an unconscious person. Seek medical attention

immediately and show this data sheet.

Most important symptoms and effects, both acute and delayed: Indication of any immediate medical attention and special treatment and supportive therapy as indicated. Symptomatic treatment and supportive material symbol supportive supply and supportive material symbol supportive supply and supportive supply supportive supply supportiv		
Special treatment needed: Spreceiting		None known.
For small fires. Dry chemical foam or standard foam, carbon dioxide. For large fires: Foam or water-fog. Water can be used for cooling of unaffected stock, but avoid the accumulation of political run-off from the site. Contain fire control water for later disposal.	special treatment needed:	Symptomatic treatment and supportive therapy as indicated.
dioxide. For large fires: Foam or water-log. Water can be used for cooling of unaffected stock, but avoid the accumulation of politied run-off from the site. Contain fire control waiter for later disposal.		For small fires: Dry chemical foam or standard foam, carbon
Water can be used for cooling of unaffected stock, but avoid the accumulation of polluted run-of from the site. Contain fire control water for later disposal. Do not use high volume water jet, due to contamination risk. Specific Hazards arising from the substance/mixture: Fire Fighting: Remove containarist from fire area if possible. If area is heavily exposed to fire and if conditions permit, let the fire burn itself out since water may increase the area contaminated (on small fires). Cool containers/arisk with spray water. Avoid inhaling vapours by keeping upwind. Contain fire control water for later disposal. Fire-fighters and others that may be exposed should wear full protective clothing: Fire-fighters and others that may be exposed should wear full protective clothing according to operator safety during removal of spillage. Wear eye protection, chemically resistant gloves, boots and coveralls. Environmental precautions: Benvironmental precautions: Wear personal protective clothing according to operator safety during removal of spillage. Wear eye protection, chemically resistant gloves, boots and coveralls. Methods and material for containment and cleaning up: Remove all sources of flames and sparks. Soak up with an inert absorptive material such as sand, soil, distomaceous and sparks are such as a sparks. Soak up with an inert absorptive material such as sand, soil, distomaceous and severs. Heavily contains the manufacturer, the dealer or local representative. Do not containment waters and severs. Heavily contains the manufacturer, the dealer or local representative. To not containment waters and severs. Heavily contains the disposed of by incineration or disposal in a chemical water sand severs. Heavily contains the manufacturer, the dealer or local representative. To not contaminate waters and severs. Heavily contains the disposed of the product cannot be re-used and must be disposed of by incineration or disposal in a chemical water sand severs. Heavily contains the disposal of the product c		dioxide.
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	ossibility of hazardous reactions:	None known.
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Conditions to avoid: Avoid all sources of ignition: heat, sparks, open flames.	onditions to avoid:	
		Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme
heat. Avoid extreme temperatures.		
		· ·
Incompatible materials: Strong acids, strong bases, strong oxidizing agents.	compatible materials:	Strong acids, strong bases, strong oxidizing agents.
Hazardous decomposition product(s): Fire may generate poisonous, explosive and corrosive	azardous decomposition product(s):	Fire may generate poisonous, explosive and corrective
fumes.		
11) TOXICOLOGICAL INFORMATION		
Acute Toxicity:		LDE0 > 2 000 mg/kg - rot
Oral: LD50 > 3 000 mg/kg, rat. Dermal: LD50 > 5 000 mg/kg, rat.		
Inhalation: LC50 4h > 4.2 mg/L, rat.	ermai:	
		-
Skin Corrosion/Irritation: Not an irritant, rabbit.	halation:	
	halation: kin Corrosion/Irritation:	
	halation: kin Corrosion/Irritation: erious Eye Damage/Irritation:	Not an irritant, rabbit.
	halation: kin Corrosion/Irritation:	Not an irritant, rabbit. Animal test did not cause sensitization by skin contact,
Carcinogenicity: No data available. No data available.	halation: kin Corrosion/Irritation: erious Eye Damage/Irritation: espiratory or Skin Sensitization:	Not an irritant, rabbit. Animal test did not cause sensitization by skin contact, guinea pig.
Reproductive Toxicity: No data available.	halation: kin Corrosion/Irritation: erious Eye Damage/Irritation: espiratory or Skin Sensitization: erm Cell Mutagenicity:	Not an irritant, rabbit. Animal test did not cause sensitization by skin contact, guinea pig. No data available.
STOT-SE: May cause respiratory irritation.	halation: kin Corrosion/Irritation: erious Eye Damage/Irritation: espiratory or Skin Sensitization: erm Cell Mutagenicity: ercinogenicity:	Not an irritant, rabbit. Animal test did not cause sensitization by skin contact, guinea pig. No data available. No data available.
STOT-RE: No data available.	halation: kin Corrosion/Irritation: erious Eye Damage/Irritation: espiratory or Skin Sensitization: erm Cell Mutagenicity: erroductive Toxicity: FOT-SE:	Not an irritant, rabbit. Animal test did not cause sensitization by skin contact, guinea pig. No data available. No data available. No data available.
Aspiration Hazard: No data available.	halation: kin Corrosion/Irritation: erious Eye Damage/Irritation: espiratory or Skin Sensitization: erm Cell Mutagenicity: ercinogenicity: eproductive Toxicity: FOT-SE:	Not an irritant, rabbit. Animal test did not cause sensitization by skin contact, guinea pig. No data available. No data available. No data available. May cause respiratory irritation. No data available.

12) ECOLOGICAL INFORMATION		
Ecotoxicity:		
Birds:	LD50 Bobwhite quail & Mallard duck > 2000 mg/kg. Dietary LC50 (5d) Bobwhite quail and Mallard ducklings > 5000 mg/kg diet. LC50 (96h) Rainbow trout > 6 mg/L, Bluegill sunfish 25	
Daphnia: Algae: Worms:	mg/L. EC50 (48h) > 10 mg/L. EC50 (96h) Scenedesmus subspicatus 29.2 mg/L. EC $_{50}$ earthworms > 1000 mg/kg soil.	
Bees:	Oral LD50 (48h) >30 μg/bee, Contact >100 μg/bee.	
Persistence and Degradability:	Aerobic soil metabolism DT_{50} 41–96 days (20 °C). Field dissipation DT_{50} 34–53 days. Water/sediment DT_{50} 5–15 days, 16–59 days (total system).	
Bio-accumulative Potential:	No evidence of accumulation.	
Mobility in Soil:	Moderately mobile, K _d 2.09–11.67 mL/g, K _{oc} 290–566.	
13) DISPOSAL CONSIDERATIONS		
Waste Disposal:	Waste should not be re-used. Do not contaminate water, food or feed by disposal. Open dumping or burning of this pesticide is prohibited. Wastes resulting from the use of this product may be disposed of by incineration or at an approved chemical waste disposal facility.	
Container Disposal:	Refer to the product label for instructions. Container Refilling and Disposal: If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE. If containers cannot be recycled, they should be disposed of together with the waste chemical.	
14) TRANSPORTATION INFORMATION		
Road Transport ADR / IRD:	Not regulated.	
Maritime Transport IMDG / IMO:	Not regulated.	
Air Transport ICAO / IATA:	Not regulated.	
Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	No transport in bulk according to the IBC Code.	
15) REGULATORY INFORMATION		
Safety, health and environmental regulations/legislation specific for the substance/mixture:	For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)	
Chemical Safety Assessment:	Advice on product handling can be found in sections 7 and 8 of this safety data sheet.	

16) OTHER INFORMATION

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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Date of issue: 26/08/2007

Date of revision: 22/04/2016; 02/02/2021

Abbreviations and acronyms:

- 1. CAS number: Chemical Abstracts Service number.
- CLP: Classification, Labelling, Packaging.
- LD₅₀: Lethal Dose for 50% of the test population.
- LC₅₀: Lethal Concentration for 50% of the test population.
 DT₅₀: Half-life.
- GHS: Globally Harmonised System (of Classification and Labelling of Chemicals). STOT: Specific Target Organ Toxicity
 SE: Single exposure 6.

- 9. RE: Repeated exposure
- 10. TWA: Time-weighted average.

Literature References:

- GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html
- ECHA: https://echa.europa.eu/search-chemicals