


## Safety Data Sheet

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

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1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	<b>SOVRIN WP</b>
Other means of identification:	Dimethomorph 500 g/kg WP
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.
Chemical Name:	(E,Z)-4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl]morpholine (IUPAC)
2) Hazards Identification:	
Classification of the product	N; R51; R53 Full text of phrases; see section 15
Label Elements	Hazard symbols: Xn – Harmful N – Dangerous for the environment  
Health effects: eyes:	May cause irritation and may be harmful. Unlikely to cause harmful effects under normal conditions and use.
Health effects: skin:	May cause irritation and may be harmful. Unlikely to cause harmful effects under normal conditions and use.
Health effects: ingestion	Harmful if swallowed.
Health effects: inhalation	Harmful if inhaled. Unlikely to cause harmful effects under normal conditions and use.

<b>3) Composition Details:</b>	
<b>COMPISITION</b>	Dimethomorph
	500g/kg
<b>4) First Aid Measures:</b>	
<b>Eye contact:</b>	Flush eyes with clean water for at least 15 minutes holding eyelids apart and call a physician immediately. Use safety goggles.
<b>Skin contact:</b>	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.
<b>Ingestion:</b>	If swallowed <b>DO NOT</b> induce vomiting unless advised to do 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.
<b>Inhalation:</b>	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.
<b>Advice to physician:</b>	Note to Physician: Symptomatic treatment and supportive therapy as indicated.
<b>5) Fire-Fighting Measures:</b>	
<b>Flash point:</b>	NA
<b>Extinguishing media:</b>	For small fires: Dry chemical foam or standard foam, carbon dioxide. For large fires: Foam or water-fog; avoid the use of a water jet. Water can be used for cooling of unaffected stock, but avoid the accumulation of polluted run-off from the site. Contain fire control water for later disposal.
<b>Specific fire fighting methods:</b>	Remove container/s 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/tanks with spray water. Avoid inhaling vapours by keeping upwind. Contain fire control water for later disposal.
<b>Special hazards:</b>	Fire may generate poisonous, explosive and corrosive fumes. Keep upwind.
<b>Protective clothing:</b>	Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus
<b>6) Accidental Release Measures:</b>	

<p><b>Personal precautions:</b></p> <p><b>Environmental precautions:</b></p> <p><b>Occupational spill:</b></p>	<p>Wear personal protective clothing according to operator safety during removal of spillage. Wear eye protection, chemically resistant gloves, boots and coveralls.</p> <p>Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.</p> <p>Remove all sources of flames and sparks. Soak up with an inert absorptive material such as sand, soil, diatomaceous earth, etc. Prevent product from spreading and collect into specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or local representative. Do not contaminate waters and sewers. Heavily contaminated soil layers should be removed and disposed of in an approved way. Notify regulatory authorities if necessary.</p> <p>Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical.</p>
<p><b>7) Handling &amp; Storage:</b></p>	
<p><b>Handling:</b></p> <p><b>Storage:</b></p>	<p>Wear appropriate personal protective equipment. Wash thoroughly and change clothes after handling. Observe all warnings and precautions listed for the product.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons.</p>
<p><b>8) Exposure Control / Personal Protection:</b></p>	
<p>It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p> <p><b>Occupational Exposure Limits:</b></p> <p><b>Engineering Controls:</b></p> <p><b>PERSONAL PROTECTIVE EQUIPMENT:</b> <b>Clothing:</b></p>	<p>Kaolinite (Al<sub>2</sub>(OH)<sub>4</sub>(Si<sub>2</sub>O<sub>5</sub>)) ACGIH TLV TWA value 1 mg/m<sup>3</sup> Respirable fraction; Titanium dioxide OSHA PEL PEL 15 mg/m<sup>3</sup> Total dust; TWA value 10 mg/m<sup>3</sup> Total dust; ACGIH TLV TWA value 10 mg/m<sup>3</sup>; crystalline silica OSHA PEL TWA value 2.4 millions of particles per cubic foot of air Respirable; The exposure limit is calculated from the equation, 250/(%SiO<sub>2</sub>+5), using a value of 100% SiO<sub>2</sub>. Lower percentages of SiO<sub>2</sub> will yield higher exposure limits. TWA value 0.1 mg/m<sup>3</sup> Respirable; The exposure limit is calculated from the equation, 10/(%SiO<sub>2</sub>+2), using a value of 100% SiO<sub>2</sub>. Lower percentages of SiO<sub>2</sub> will yield higher exposure limits. TWA value 0.3 mg/m<sup>3</sup> Total dust; The exposure limit is calculated from the equation, 30/(%SiO<sub>2</sub>+2), using a value of 100% SiO<sub>2</sub>. Lower percentages of SiO<sub>2</sub> will yield higher exposure limits. ACGIH TLV TWA value 0.025 mg/m<sup>3</sup> Respirable fraction;</p> <p>Not available</p>

<b>Gloves:</b>  <b>Eye protection:</b>  <b>Emergency eye wash:</b>	<p>Employee must wear appropriate protective (impervious) clothing and full-face respirator to prevent skin contact with this substance.</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance</p> <p>The use of safety goggles or full-face shield is recommended.</p> <p>Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.</p>
<b>9) Physical &amp; Chemical Properties:</b>	
<b>Form:</b>	Wettable powder
<b>Colour:</b>	Light brown
<b>Odour:</b>	Slight sweetish odour
<b>Solubility:</b>	Dispersible in water
<b>Density:</b>	1.127 g/ml
<b>pH:</b>	7.86
<b>Odour threshold:</b> <b>Melting point / Freezing point</b> <b>Initial boiling point and boiling range</b> <b>Flash point:</b> <b>Evaporation rate:</b> <b>Flammability (solid, gas)</b>	Not available Approx. 125 – 149 (active ingredient) Not available NA Not available Not available
<b>Upper/ lower flammability or explosive limits:</b> <b>Vapour pressure:</b> <b>Vapour density:</b> <b>Partition coefficient: n-octanol/water</b> <b>Auto-ignition temperature:</b> <b>Viscosity:</b>	Not available Negligible Not available Not available Not available NA
<b>10) Stability &amp; Reactivity:</b>	
<b>Stability:</b>  <b>Conditions to avoid:</b>  <b>Incompatible materials:</b>  <b>Hazardous decomposition product(s):</b>	<p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Incompatible or can react with bases.</p> <p>Avoid all sources of ignition: heat, sparks, open flames. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.</p> <p>Strong acids, strong bases, strong oxidizing agents.</p> <p>Generating poisonous, explosive and corrosive fumes</p>
<b>11) Toxicological Information:</b>	
Acute: Oral LD50            > 3 000 mg/kg, rat. Dermal LD50       > 5 000 mg/kg, rat. Inhalation LC50 4h > 4.2 mg/L, rat.  Skin irritation        : Not an irritant, rabbit. Eye irritation        : Not an irritant, rabbit. Sensitisation        : Animal test did not cause sensitization by skin contact, guinea pig.	
<b>12) Ecological Information:</b>	

**Acute:**

Bees : Oral LD50 (48h) >30 µg/bee, Contact >100 µg/bee.

Birds : LD50 Bobwhite quail & Mallard duck > 2000 mg/kg.

Dietary LC50 (5d) Bobwhite quail and Mallard ducklings > 5000 mg/kg diet.

Fish : LC50 (96h) Rainbow trout > 6 mg/L, Bluegill sunfish 25 mg/L.

Daphnia : EC50 (48h) > 10 mg/L.

Algae : EC50 (96h) *Scenedesmus subspicatus* 29.2 mg/L. Worms : EC<sub>50</sub> earthworms > 1000 mg/kg soil.

**Persistence:**

Moderately mobile, K<sub>d</sub> 2.09–11.67 mL/g, K<sub>oc</sub> 290–566. Aerobic soil metabolism DT<sub>50</sub> 41–96 days (20 °C).

Field dissipation DT<sub>50</sub> 34–53 days. Water/sediment DT<sub>50</sub> 5–15 days, 16–59 days (total system).

**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:**

UN Number Not regulated

**15) Regulatory Information:**

**Symbols:** N, Xi **Risk –**

**Phrase:**

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:**

S1/2: Keep locked up and out of the reach of children.

S28: 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.

**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.

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