



Safety Data Sheet

SOVRIN FLO - Reg. No: L 7601 (Act No 36 of 1947) N-AR 1534

Date of issue: 26/08/2007
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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.						
Product name:		SOVRIN FLO				
Other means of identification		Dimethomorph 500 SC				
Recommended use:		Fungicide				
Restrictions on use:		No information available				
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 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946				
Chemical Name:		<i>(E,Z)</i> -4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl]morpholine (IUPAC)				
2) Classification of the substance / mixture:						
Classification of the product is based on the coformulants listed in section 3.		N; R51-53 Full text of R-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 of use.				
Health effects: skin:		May cause irritation and may be harmful. Unlikely to cause harmful effects under normal conditions of use				
Health effects: ingestion		Harmful if swallowed.				
Health effects: inhalation		May cause irritation and may be harmful. Unlikely to cause harmful effects under normal conditions of use				
3) COMPOSITION / INFORMATION ON INGREDIENTS:						
Mixture:						
Chemical name	% composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC	

Dimethomorph	50 – 51.2%	110488-70-5	613-102-00-0	Chronic aquatic: 2 (H411)	N; R51-53
Amine salt of polyaryl/phenyl ether phosphate	5%	105362-40-1	-	Chronic aquatic: 3 (H412)	N; R51-53

Full text of R-phrases: see section 15.

4) First Aid Measures:

<p>Eye contact:</p> <p>Skin contact:</p> <p>Ingestion:</p> <p>Inhalation:</p> <p>Most important symptoms and effects, acute and delayed:</p> <p>Indication of immediate medical attention and special treatment needed: Advice to physician</p>	<p>Flush eyes with clean water for at least 15 minutes holding eyelids apart and call a physician immediately. Use safety goggles.</p> <p>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.</p> <p>If swallowed DO NOT 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.</p> <p>Remove victim to well ventilated area and loosen clothing around the neck. If breathing is difficult, give oxygen. If breathing has stopped, perform artificial respiration. Get medical attention if necessary.</p> <p>None known</p> <p>Symptomatic treatment and supportive therapy as indicated.</p>
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5) Fire-Fighting Measures:

<p>Suitable extinguishing media:</p> <p>Unsuitable extinguishing media:</p> <p>Fire fighting:</p>	<p>Will not burn readily. For small fires: Foam, carbon dioxide, dry powder or halon extinguisher. Do not use a high volume water jet due to contamination risk. 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.</p> <p>No information available.</p> <p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal.</p> <p>Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.</p> <p>On small fires: If the area is heavily exposed to fire and if conditions permit, let the fire burn itself out since water may increase the area contaminated. Cool containers/tanks with spray water.</p> <p>Fire may produce irritating or poisonous vapours, mists or other products of combustion.</p>
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Protective clothing:	Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus
6) Accidental Release Measures:	
Personal precautions: Cleaning procedure: Disposal:	<p>Wear personal protective clothing according to operator safety during removal of spillage. Wear eye protection, chemically resistant gloves, boots and coveralls.</p> <p>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. Treat contaminated areas with water containing soda or detergent. Dike spill area and collect washings to avoid any contamination of surface and ground water, water supplies and drains. Heavily contaminated soil layers should be removed and disposed of in an approved way. Rinse the spill area and any tools or implements several times with soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container as the spill material. 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>
7) Handling & Storage:	
Handling: Storage:	<p>Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</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. Do not contaminate water, food or feed by storage or disposal.</p>
8) Exposure Control / Personal Protection:	
<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><u>PERSONAL PROTECTIVE EQUIPMENT:</u> Clothing:</p> <p>Gloves:</p> <p>Eye protection:</p>	<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>

Emergency eye wash:	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.
9) Physical & Chemical Properties:	
Form: Colour: Odour: Odour threshold: pH: Melting point / Freezing point Initial boiling point and boiling range Flash point: Evaporation rate: Flammability (solid, gas) Upper/ lower flammability or explosive limits: Vapour pressure: Vapour density: Relative density: Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature: Viscosity:	Liquid, suspension concentrate White Characteristic No data available Approximately 7.2 No data available No data available No data available No data available No data available No data available No data available No data available No data available 1.127 g/ml Suspends in water No data available No data available No data available
10) Stability & Reactivity:	
Reactivity: Chemical stability: Hazardous decomposition product(s): Conditions to avoid: Incompatible materials:	Not available When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Incompatible or can react with bases. Thermally and chemically stable. Heating can release vapours poisonous and corrosive fumes. Heat, flames, sparks and other sources of ignition. No data available
11) Toxicological Information:	
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.	
12) Ecological Information:	
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) <i>Scenedesmus subspicatus</i> 29.2 mg/L. Worms : EC50 earthworms > 1000 mg/kg soil. Persistence and degradability: Moderately mobile, K _d 2.09–11.67 mL/g, K _{oc} 290–566. 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). Biodegradation: Not readily biodegradable. Bioaccumulative potential: 2.75	

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

UN proper shipping name: NA

Transport hazard class(es): Not classified as hazardous for transport. Packing group:

NA

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): NA Special

precautions: NA

Environmental hazard: Yes



15) Regulatory Information:

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

To avoid risks to man and the environment, comply with all instructions for use.

Advice on handling of the product can be found in sections 7 and 8 of this safety data sheet.

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.

Aquatic chronic: Hazardous to the aquatic environment – chronic.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

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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