

Safety Data Sheet

TORPEDO SC - Reg. No: L 7655 (Act No 36 of 1947)

EFFECTIVE DATE: 04/10/2010

REVISION DATE (VERSION): May2022 (2)

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER	
Product name:	TORPEDO SC
Other means of identification:	Flumetsulam 200 g/L SC
Recommended use:	Herbicide
Restrictions to use:	Agriculture
UN No:	3082
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN Telephone: (011) 396 2233 Fax: (011) 396 4666 www.agritech.co.za
Emergency Number:	Emergency telephone numbers: 24 Hr Transport / Spill emergency no: Hazcall24 +27 86 044 4411 (Client: Villa Crop Protection) Griffon Poison Information Centre +27 82 446 8946 (Client: Villa Crop Protection) Poisoning Emergency telephone numbers: Griffon Poison Information Centre +27 82 446 8946 Poisons Information Centre +27 861 555 777
Chemical Name:	2',6'-difluoro-5-methyl[1,2,4]triazolo[1,5-a]pyrimidine-2-sulfonanilide (IUPAC)
2) CLASSIFICATION OF THE SUBSTANCE / MIXTURE:	
Classification of the product is based on the coformulants listed in section 3	See section 15 for full text safety phrases. Hazard pictogram(s): None Signal Word: WARNING Hazard statement(s): H412: harmful to aquatic life with long lasting effects. EUH401: To avoid risks to human health and the environment, comply with the instructions for use. Precautionary Statement(s): P501: Dispose of content / container to hazardous or special waste collection point.
Label elements:	None.
Health effects: eyes:	May cause mild irritation.
Health effects: skin:	May cause mild irritation.
Health effects: ingestion	May cause irritation and may be harmful.

Health effects: inhalation			Unlikely to cause harmful effects under normal conditions and use.		
3) COMPOSITION DETAILS:					
Chemical name	Composition (%)	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Flumetsulam	20	98967-40-9			N - R50 - R53
Other ingredients					
Full text of R- and S-phrases: see section 15.					
4) FIRST AID MEASURES:					
Inhalation:			Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.		
Skin contact:			Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Persons providing first aid must wear gloves to avoid selfcontamination. Seek medical assistance if irritation occurs.		
Eye contact:			Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance immediately.		
Ingestion			Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance immediately.		
Advice to physician:			Never give anything by mouth to an unconscious person. Do not induce vomiting. For advice, contact the National Poisons Centre. The decision of whether to induce vomiting or not should be made by an attending physician. Seek medical assistance immediately.		
			No specific antidote. Supportive care. Treatment based on judgement of physician in response to symptoms of patient.		
5) FIRE-FIGHTING MEASURES:					
Flash point:			Not flammable.		
Extinguishing Media:			Fine water spray, foam, carbon dioxide. Do not use high volume water jet, due to contamination risk.		
Unsuitable extinguishing media:			Water jet, due to contamination risk.		
Fire Fighting:			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. 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.		
Special hazards arising from the substance or mixture:			Generating poisonous and corrosive fumes containing: carbon monoxide, nitrogen oxides and hydrochloric acid.		
			UNUSUAL FIRE OR EXPLOSION HAZARDS: Combustion products are toxic and/or irritant.		

Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) ACCIDENTAL RELEASE MEASURES:	
Personal precautions: Environmental precautions: Occupational spill:	<p>For personal protection see Section 8. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.</p> <p>Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.</p> <p>Wear protective clothing. Clear area of unprotected personnel. Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number. Contain runoff to prevent entry into water or drainage systems. Very toxic to algae. Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.</p>
7) HANDLING & STORAGE:	
Handling: Storage:	<p>Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work</p> <p>Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.</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></p> <p>Clothing:</p> <p>Respiratory protection:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Emergency eye wash:</p>	<p>Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.</p> <p>For emergency conditions, use an approved positive pressure self-contained breathing apparatus</p> <p>Use gloves, impervious to this material when prolonged or frequently repeated contact could occur.</p> <p>The use of safety goggles with side shields is recommended.</p> <p>Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide</p>

	an eye wash fountain or appropriate alternative within the immediate work area for emergency use.
9) PHYSICAL & CHEMICAL PROPERTIES:	
Form:	Liquid
Colour:	Brown
Odour:	Odourless
Solubility:	Suspends in water
pH:	Not available
Melting point / Freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	Not flammable
Evaporation rate:	Not available
Flammability (solid, gas)	Not flammable
Upper / lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature:	Not available
Viscosity:	Not available
10) STABILITY & REACTIVITY:	
Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Conditions to avoid:	Avoid extremes of temperature and direct sunlight.
Incompatible materials:	Strong basic, acidic or oxidising materials.
Hazardous decomposition product(s):	None under normal conditions of storage and use.
11) TOXICOLOGICAL INFORMATION:	
<p>Ingestion Single dose oral toxicity is considered to be low. The oral LD50 for rats is >5000 mg/kg.</p> <p>Skin Contact The dermal LD50 for rats is >2000mg/kg. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Essentially non-irritating to skin.</p> <p>Sensitisation Non-sensitising to guinea pig skin.</p> <p>Eye Contact May cause slight transient (temporary) eye irritation.</p> <p>Inhalation Assessment largely or completely based on data for active ingredient. No adverse effects anticipated by this route of exposure incidental to proper handling.</p>	
12) ECOLOGICAL INFORMATION:	
<p>Aquatic Toxicity Material is not harmful to fish on an acute basis (LC50>100mg/L). Material is not harmful to aquatic invertebrates on an acute basis (EC50>100mg/L). Material is very toxic to algae (IC50 <1.0 mg/l).</p> <p>Avian Toxicity Material is practically non-toxic to birds on an acute basis (LD50 >2000mg/kg).</p> <p>Additional Information Material is practically non-toxic to bees on an acute basis. LD50 for earthworms is >1000mg/kg.</p> <p>ENVIRONMENTAL FATE</p> <p>Animals Rapidly cleared via urine and faeces with no metabolites. 5-Hydroxy metabolite found in the hen. Plants DT50 in maize 2h, soya beans 18h, chenopodium 131h. Metabolites depend on the species; 5-hydroxy or 5methoxy derivatives are common.</p>	

Soil/Environment Flumetsulam is not significantly broken down by hydrolysis or photolysis and in water degradation is due to microbial activity.

In soil, flumetsulam is broken down by microbial action. It has a half-life of two weeks to four months, depending on the soil type, pH of the soil, organic matter content, microbial activity and climatic conditions. Degradation is favoured under conditions of high pH. Soil studies have indicated that flumetsulam at recommended label rates has only limited potential to leach into soil structures and is expected to generally remain within the top 30 cm. Any trace residues entering ground water will be degraded by anaerobic or aerobic pathways.

If used according to the product label, Torpedo is unlikely to be harmful to the environment.

13) DISPOSAL CONSIDERATIONS:

Waste Disposal: In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Refer to the product label for instructions. Triple rinse empty containers before disposal in the following manner: Invert the container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container volume. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Empty containers should not be burnt; puncture and flatten containers and dispose at a licensed landfill site according to local regulations. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Prevent contamination of water sources, food or feed by disposal. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** If recycling, replace cap and take containers to the designated recycling point. If containers cannot be recycled, they should be disposed of together with the waste chemical according to local regulations.

14) TRANSPORTATION INFORMATION:

UN NUMBER: 3082

IMO hazardous description:

Road, Rail & Barge

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUMETSULAM)

Truck - Label: 9

Rail - Label: 9

Barge - Label: 9

Sea - IMO/IMDG

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUMETSULAM)

Class: 9

Label: 9

Packing Group: III

Marine Pollutant: No

Air-ICAO/IATA

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUMETSULAM)

Class: 9

Label: 9

Packing Group: III

Remarks: Sample shipment not allowed by mail.

15) REGULATORY INFORMATION:

Labelling according to EC directives:

Hazardous components which must be listed on the label: FLUMETSULAM

Indication of danger: Environmentally hazardous substance

R-phrase(s):

R 21/22 Harmful in contact with skin or if swallowed.

R 36/38 Irritating to eyes and skin.

S-phrase(s):

S2 – Keep out of reach of children.

S13 – Keep away from food, drink and animal feeding stuffs.

S20/21 – When using, do not eat, drink or smoke.

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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For detailed information on revisions, contact the Registration holder.