



Safety Data Sheet

SAFENIM - Reg. No: L 8682 (Act No 36 of 1947)

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	Safenim
Other means of identification:	Fluxofenim 960 g/L EC
Recommended use:	Seed treatment
Restrictions on use:	Agriculture
UN No:	3082
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:	4'-chloro-2,2,2-trifluoroacetophenone O-1,3-dioxolan-2ylmethoxyime
2) CLASSIFICATION OF THE SUBSTANCE / MIXTURE:	
Classification of the product is based on the co-formulants listed in section 3	N; Xi; R20/22; R38; R50/53 Full text of R-phrases; see section 15
Label elements:	<p>Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended Hazardous components which must be listed on the label: FLUXOFENIM</p> <p>Hazard pictogram(s):</p> <div>   </div> <p>Signal word: WARNING</p> <p>Hazard Statement(s): H302: Harmful if swallowed. H312: Harmful in contact with skin. H315: Causes skin irritation. H330: Fatal if inhaled. H400: Very toxic to aquatic life.</p>
Health effects: eyes:	May cause irritation
Health effects: skin:	May cause irritation and be harmful
Health effects: ingestion	Harmful if swallowed
Health effects: inhalation	Harmful if inhaled
3) COMPOSITION DETAILS:	

Chemical name	Composition (g/L)	CAS No.	EC No.	CLP Classification	DSD Classification
Fluxofenim	960	88485-37-4		Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Irrit. 2, H315 Aquatic Acute 1, H400	Xi N
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 artificial respiration. Seek medical assistance immediately.		
Skin contact:			Immediately remove contaminated clothing and gently wipe off excess chemical. Wash thoroughly and gently with plenty of water and a non-abrasive soap. Wash contaminated clothing before re-use. Seek medical assistance if irritation persists.		
Eye contact:			Flush eyes with plenty of clean water for at least 20 minutes holding eyelids open. Remove contact lenses. Seek medical assistance immediately.		
Ingestion			Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Keep the patient at rest and seek medical assistance immediately. Show this material safety data sheet to the doctor. For advice, contact the National Poisons Centre.		
Advice to physician:			No specific antidote is available, treat symptomatically.		
5) FIRE-FIGHTING MEASURES:					
Flash point:			76.6 °C		
Extinguishing Media:			Small fires: Water spray, carbon dioxide, alcohol-resistant foam or dry chemical. Large fires: Alcohol-resistant foam or water spray Contain any fire fighting water.		
Unsuitable extinguishing media:			Solid water jet as it may scatter and spread the fire.		
Fire Fighting:			Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent. Fight fire from maximum distance. 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. Dispose of the extinguishing agent and spillage safely at a later stage. Do not allow the run-off from fire-fighting to enter drains or water ways. Avoid the contamination of water bodies.		
Special hazards arising from the substance or mixture:			This product contains combustible organic components; therefore, fire will produce dense black smoke containing hazardous combustion products (see section 9). Exposure to these decomposition products may be a health hazard.		
Protective clothing:			Full protective clothing and self-contained breathing apparatus		
6) ACCIDENTAL RELEASE MEASURES:					

Personal precautions: Environmental precautions: Occupational spill:	<p>Avoid contact with skin and eyes. . Do not eat, drink or smoke during the clean up process. For personal protection see Section 8.</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>Keep people and animals away. Contain the spill and absorb with a non-combustible absorbent material such as earth, sand, diatomaceous earth, vermiculite and place in a properly labeled, closable container for disposal according to local/national regulations. Prevent further leakage or spillage if safe to do so. Prevent the spillage from entering drains and watercourses. If the contamination of drains, streams, watercourses and other water bodies cannot be avoided, warn the local authorities immediately.</p>
7) HANDLING & STORAGE:	
Handling:	Avoid contact with eyes, skin, mouth and inhalation of product. Wear protective clothing (See section 8) when opening the container, preparing the spray and using the prepared spray. Wash hands after use and before eating, drinking, chewing gum, smoking or using the toilet. Do not eat, smoke or drink when using this product. Wash gloves and contaminated clothing daily following use. For personal protection, see section 8.
Storage:	Keep out of reach of children, unauthorized persons, and animals. Store in its original labeled container in a cool, dry, well ventilated area.. Local regulations should be complied with. Store away from incompatible substances and sources of ignition/fire.
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>Assess the exposure and select chemical resistant clothing based on the potential for contact and the penetration/permeation characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use or use disposable equipment such as aprons, suits, sleeves, boots etc.</p> <p>Wear as appropriate: An impervious protective suit.</p> <p>No personal protective equipment is usually required. A particulate respiratory filter may be necessary until effective technical measures have been installed.</p> <p>Chemically resistant gloves should be used. These gloves should be certified to an appropriate standard and should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves depends on the thickness, the material and the manufacturer. Suitable material: Nitrile rubber.</p> <p>Not usually required. Follow any site specific eye protection policies.</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>

9) PHYSICAL & CHEMICAL PROPERTIES:	
Form: Colour: Odour: Solubility: 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: Partition coefficient: n-octanol/water Auto-ignition temperature: Viscosity:	Liquid Off-white Characteristic, weak Miscible in water - NA No data available 76.6 °C No data available Slightly flammable No data available No data available No data available No data available No data available No data available
10) STABILITY & REACTIVITY:	
Stability: Conditions to avoid: Incompatible materials: Hazardous decomposition product(s):	Stable for two years under normal, dry storage conditions in the original unopened container. None known. Strong acids. Combustion or thermal decomposition will evolve vapours that are toxic and irritating
11) TOXICOLOGICAL INFORMATION:	
Acute Oral : LD ₅₀ for rats >1000 mg/kg, rat. Dermal : LD ₅₀ for rats >2 000 mg/kg, Inhalation : LC ₅₀ (4 h) for rats >4,19 g/L/4hr. Skin irritation: Mild irritant, rabbit. Eye irritation : No irritation, rabbit Sensitization : Did not cause sensitization on laboratory animals, guinea pig.	
12) ECOLOGICAL INFORMATION: based on technical material.	
Bees : No data, but no likely impact Birds : Acute oral LD ₅₀ : Male and female bobwhite quail > 2000 mg/Kg body weight, Fish: <u>LC₅₀</u> (96 h) for rainbow trout 0.86, bluegill sunfish 2.5 mg/l. Daphnia : LC ₅₀ (48 h) 0.22 mg/l. Worms : No data, but no likely impact Persistence: In the rat, fluxofenim is rapidly absorbed and rapidly excreted via urine and faeces, with low tissue residues. Metabolism proceeds via hydrolysis of the dioxolane ring and subsequent oxidation steps.	
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 NO 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

Road Transport ADR/ RID:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. (FLUXOFENIM)

Maritime Transport IMDG / IMO:

Road Transport ADR/ RID:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. (FLUXOFENIM)

15) REGULATORY INFORMATION:

Labelling according to EC directives:

Hazardous components which must be listed on the label: FLUXOFENIM

Symbols: Xi: Irritant

N: Dangerous to the environment.

Risk phrases:

R20/22: Harmful by inhalation and if swallowed.

R38: Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s):

S2 Keep out of the reach of children

S13: Keep away from food, drink and animal feedings.

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

S24 Avoid contact with skin.

S35: This material and its container must be disposed of in a safe way.

S46: If swallowed, seek medical advice immediately and show this container or label.

S57: Use appropriate container to avoid environmental contamination.

S60: This material and its container must be disposed of as hazardous waste. **S61:**

Avoid release to the environment. Refer to special instructions/Safety data sheets.

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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