


Safety Data Sheet

SAYONARA - Reg. No: L 9384 (Act No 36 of 1947)

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	SAYONARA
Other means of identification:	Thiamethoxam 240 g/L SC
UN number:	Not regulated
Recommended use:	Insecticide
Restrictions on use:	Agriculture
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 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
Chemical Name:	Cyano-(3-phenoxyphenyl)-methyl-2,2,3,3-tetramethylcyclopropanecarboxylate
2) Classification of the substance / mixture:	
Classification of the product:	N R50/53 Acute aquatic toxicity: Category 1: H400 Chronic aquatic toxicity: Category 2: H411 For full text of R phrases and symbols refer to section 15
Label elements:	 <p>Signal word: Warning</p> <p>H410 P273 P391 P501 R50/53 S 2 S13 S20/21 S35 Other hazards: None known</p> <p>For full text of R and S phrases, symbols, H statements and P statements refer to section 15.</p>

Health effects: eyes:	May cause irritation.
Health effects: skin:	May cause irritation.
Health effects: ingestion	May be harmful
Health effects: inhalation	May be harmful
Health effects: Other	No data available

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
thiamethoxam	24%	153719-23-4		Flam. Sol. 1: H228 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic chronic; H410	F, Xn, N R11 R22 R50/53

Full text of R- and S-phrases: see section 15.

4) First Aid Measures:

Eye contact:	Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses. Seek medical assistance immediately.
Skin contact:	Immediately remove contaminated clothing and flush body and clothes with large amounts of water. Wash contaminated clothing before re-use. Seek medical assistance if irritation persists.
Ingestion:	Never give anything by mouth to an unconscious person. Do not induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately and show this container or label.
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. Keep the patient warm and at rest. Seek medical assistance immediately.
Most important symptoms and effects, acute and delayed:	None known
Indication of immediate medical attention and special treatment needed: Advice to physician	No specific antidote is available. Treat symptomatically..

5) Fire-Fighting Measures:

Suitable extinguishing media:	Small fires: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Large fires: Alcohol resistant foam or water spray
Unsuitable extinguishing media:	Avoid the use of a solid water stream as this may cause spreading.
Special hazards arising from the substance or mixture:	This product consists of combustible organic components that may burn and decompose during a fire and produce a dense black smoke with hazardous combustion products. These products are toxic and/or irritant. Exposure to decomposition products may be a health hazard.

Fire-fighting:	<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. Bund area with sand or earth to avoid pollution of waterways. Dispose of extinguishing agent and spillage in a safe way at a later stage.</p> <p>vapours, mists or other products of combustion.</p>
Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) Accidental Release Measures:	
Personal precautions:	Avoid contact with skin. For personal protection see Section 8.
Environmental precautions:	Do not contaminate waterways, drains and groundwater. Heavily contaminated soil layers should be removed and disposed of in an approved way. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.
Cleaning procedure:	Do not eat, drink or smoke during the clean up process. Clear area of unprotected personnel. Wear protective gear: (refer to section 8). Keep people and animals away. Reposition leaking containers to minimize further leakage. Contain spill and collect with non-combustible absorbent materials such as sand, earth, diatomaceous earth, vermiculite and store in properly labelled drums for safe disposal. Seal drums and label ready for later disposal according to local/national regulations.
Disposal:	<p>Deal with spillages immediately</p> <p>Waste Disposal:</p> <p>In accordance with local and national regulations. 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. Product waste should be burned in a high temperature incinerator (> 1000 °C) with effluent gas scrubbing. Never pour untreated waste or surplus products into public sewers or where there is any danger of running-off or seepage into water systems. Comply with local legislation applying to waste disposal.</p> <p>Container Disposal: Refer to the product label for instructions.</p> <p>Emptied containers retain vapour and product residues, therefore observe all labelled safeguards until the container is destroyed. Combustible containers should be disposed of in pesticide incinerators. Non-combustible containers must first be triple-rinsed with water, then punctured and transported to a scrap metal facility for recycling or disposal.</p> <p>If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</p> <p>Do not transport if this container is damaged or leaking.</p>
7) Handling & Storage:	

<p>Handling:</p> <p>Storage:</p>	<p>No special protective measures against fire are required. Avoid skin and eye contact Wash hands thoroughly with soap and water before breaks and immediately after handling the product. Do not eat, drink, smoke or apply cosmetics when there is a possibility of exposure to the product. For personal protection see section 8.</p> <p>Store in original container tightly closed and in a locked, dry, cool, well-ventilated area away from foods, drink and animal feeds. Keep away from children or uninformed persons. Store away from sun and damp.</p> <p>Avoid storage at temperatures below 0°C and above 35 °C.</p>
<p>8) Exposure Control / Personal Protection:</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><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Respiratory protection:</p> <p>Emergency eye wash:</p>	<p>Consult supplier to confirm that the equipment is suitable.</p> <p>No special protective equipment is required. Select skin and body protection based on the requirements of the job.</p> <p>Chemical gloves are not normally required. Select gloves based on the requirements of the job.</p> <p>Eye protection is not normally needed. Follow any site specific eye protection policies in practice.</p> <p>Not normally required. If inhalation is likely, an approved particulate filter respirator may be needed until effective technical measures are installed.</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>
<p>9) Physical & Chemical Properties:</p>	
<p>Form:</p> <p>Colour:</p> <p>Odour:</p> <p>Odour threshold:</p> <p>pH:</p> <p>Melting point / Freezing point</p> <p>Initial boiling point and boiling range</p> <p>Flash point:</p> <p>Evaporation rate:</p> <p>Flammability (solid, gas)</p> <p>Upper/ lower flammability or explosive limits:</p> <p>Vapour pressure:</p> <p>Vapour density:</p> <p>Relative density:</p> <p>Solubility(ies)</p>	<p>Liquid</p> <p>White</p> <p>Characteristic</p> <p>No data available</p> <p>6.5-8.5 at 1% w/v</p> <p>No data available</p> <p>No data available</p> <p>≥100 °C</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>1.06 g/L</p> <p>Miscible in water</p>

Partition coefficient: n-octanol/water Auto-ignition temperature: Viscosity:	No data available No data available No data available
10) Stability & Reactivity:	
Reactivity: Chemical stability: Hazardous decomposition product(s): Conditions to avoid: Incompatible materials:	No data available. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. No hazardous reactions known. Hazardous polymerization does not occur. Not oxidizing. Combustion or thermal decomposition will evolve irritant and toxic vapours such as hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides No data available. No data available.
11) Toxicological Information:	
Acute: Oral LD50 > 3 000 mg/kg, rat Dermal LD50 > 6000 mg/kg, rabbit Inhalation LC50 (4h): >5.39 mg/L , rat Skin irritation : Not an irritant, rabbit Eye irritation : Not an irritant, rabbit Sensitisation : Did not cause sensitization on laboratory animals, guinea pig. Other : No data available.	
12) Ecological Information:	
Information below based on active ingredient: Bees : LD50 (oral) 0.005 µg/bee; (contact) 0.024 µg/bee. Toxic to bees Birds : Acute oral LD50 for bobwhite quail 1552, mallard ducks 576 mg/kg. Dietary LC50 for bobwhite quail and mallard ducks >5200 mg/kg Fish : LC50 (96 h) for rainbow trout >495 mg/L Algae : No data available. Worms: LC50 (14 d) for Eisenia foetida >1000 mg/kg soil Other aquatic species: <i>Daphnia magna</i> EC50 (48 h): > 490 mg/L	
13) Disposal Considerations:	
Waste Disposal: Do not contaminate ponds, waterways or ditches with pesticide or used containers and do not dispose of waste into the sewers. If possible, recycling is preferable to disposal or incineration. If recycling is not practical, dispose of in accordance with local and national regulations.	
Container Disposal: Refer to the product label for instructions. Emptied containers retain vapour and product residues, therefore observe all labelled safeguards until the container is destroyed. Combustible containers should be disposed of in pesticide incinerators. Non-combustible containers must first be triple-rinsed with water, then punctured and transported to a scrap metal facility for recycling or disposal. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.	
Do not transport if this container is damaged or leaking.	

14) Transportation Information:

Not regulated for transport.

15) Regulatory Information:

Symbols: N - Dangerous for the environment

F – Flammable

Xn – Harmful

Risk – Phrase:

R11 – Highly flammable

R22 – Harmful if swallowed

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

Safety – Phrase:

S2 - Keep out of reach of children.

S 7 - Keep container tightly closed.

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

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

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.

S57 - Use appropriate containment to avoid environmental contamination.

Hazard Statements:

H228 - Flammable solid.

H302 - Harmful if swallowed.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long-lasting effects.

H411 - Toxic to aquatic life with long-lasting effects.

Precautionary Statements:

P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents / container to an approved waste disposal plant.

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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