# with us you are growing goodness



MERIDIAN AGROCHEMICAL COMPANY (PTY) LTD P.O. Box 436, Modderfontein, 1645, SOUTH AFRICA

Tel +27 11 822 8509 | Fax +27 11 822 3494 | E-mail info@agritech.co.za | www.intelichem.co.za | www.agritech.co.za | REG NO: 2000/010819/07 | VAT NO: 4120189206

### **Safety Data Sheet**

## Sayonara Xtra L11021 (Act 36 of 1947)

1) PRODUCT AND COMPANY IDENTIFICATION	CAVONADA VIDA
Product name:	SAYONARA XTRA
Other means of identification:	Thiamethoxam 600 FS
Chemical Name:	Thiamethoxam (IUPAC): (EZ)-3-(2-chloro-1,3-thiazol-5-
	ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-
	ylidene(nitro)amine
Recommended use:	Insecticide
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
2) HAZARDS IDENTIFICATION:	
Classification of the substance/mixture:	Acute Toxicity Category 4 (Oral)
	Acute Toxicity Category 4 (Dermal)
	Skin Irritation Category 3
	STOT RE Category 2 (Lungs)
	STOT RE Category 1 (Gastrointestinal tract)
	Aquatic Acute Category 1
	Aquatic Chronic Category 1
Label Elements:	
Globally Harmonized System, EU (GHS):	Pictogram:
	<b>^ ^ ^</b>
	W
	(±2)(
	Ciamal wards Maraina
	Signal word: Warning
A	Hazard Statements
According to Directive 67/548/EEC No. 1272/2008 [CLP]	Hazard Statements: H302: Harmful if swallowed.
	H314: Causes severe skin burns and eye damage.
	H315: Causes skin irritation.
	H318: Causes serious eye damage. H319: Causes serious eye irritation.
	H335: May cause respiratory irritation.
	H372: Causes damage to organs through prolonged or
	repeated exposure (Gastrointestinal Tract, Oral)
	H373: May cause damage to organs through prolonged or
	repeated (Lungs)
	H400: Very toxic to aquatic life.
	<b>H410:</b> Very toxic to aquatic life with long-lasting effects.

#### **Precautionary Statements:**

P201: Obtain special instructions before use.

**P202:** Do not handle until all safety precautions have been read and understood.

**P264:** Wash face and hands thoroughly after handling. **P261:** Avoid breathing fumes/gas/mist/vapours/spray. **P262:** Do not get in eyes, on skin, or on clothing.

**P270:** Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

#### Hazard symbols:

N: Dangerous for the environment

Xi: Irritating substance

Xn: Harmful

#### R-phrase(s):

R22: Harmful if swallowed.

R35 Causes severe burns.

R38 Irritating to skin.

R37 Irritating to respiratory system.

R41 Risk of serious damage to eyes.

**R48/20** Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**R48/22** Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

#### S-phrase(s):

\$1/2: Keep locked up and out of reach of children.

S3: Keep in a cool place.

**S7:** Keep container tightly closed.

\$13: Keep away from food, drink and animal feeding stuffs.

\$20/21: When using, do not eat, drink or smoke.

**\$23:** Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

S24: Avoid contact with skin.

\$24/25 Avoid contact with skin and eyes.

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

**S36:** Wear suitable protective clothing.

**\$57:** Use appropriate containment to avoid environmental contamination.

**S61:** Avoid release to the environment. Refer to special instructions/Safety data sheets.

#### 3) COMPOSITION / INFORMATION ON INGREDIENTS:

#### 3.1 Substances:

Not applicable

#### 3.2 Mixtures:

Chemical name	Concentration	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Thiamethoxam	600 g/L	153719-23-4	428-650-4	Acute Tox. Cat. 4 (H302) Aquatic Acute Cat. 1 (H400) Aquatic Chronic Cat. 1 (H410)
Denatonium benzoate in monoethylene glycol	4.0%		906-307-4	Acute Tox. Cat 4 (H302)
Glycerol	4.8%	56-81-5	200-289-5	Eye Irrit Cat. 2 (H319) Skin Irrit. Cat. 2 (H315) STOT RE Cat. 2 (H373, Lungs) STOT RE Cat. 1 (H372, gastrointestinal, oral) STOT SE Cat. 3 (H335, Respiratory tract, inhalation)

Acetic Acid	0.2%	64-19-7		200-580-7	Flam. Liq. Cat. 3 (H226) Skin Corr Cat 1A (H314) Eye Dam. Cat 1 (H318)
4) FIRST AID MEASURE	:S:	1		ı	- 10 Dam. Oat 1 (11010)
Description of First-Aid Me					
Inhalation: Skin contact:			down and has stopp breathing personne	I keep warm and bed, ensure airwar is laboured oxyg I only. Seek med ely flush body an	ir. Loosen clothing around neck. Lie rested. If breathing is shallow or any is clear and apply resuscitation. If yen should be supplied by qualified ical assistance if necessary.  d clothes with large amounts of
			skin gentl abrasive s providing contamina	y but thoroughly soap for 15 to 20 first aid must we ation. Seek medi	ted clothing and footwear. Wash with plenty of water and non-minutes. Do not rub skin. Persons ar gloves to avoid self-cal assistance if irritation persists.
Eye contact:			for 15 mir	nutes, holding eye, , after the first 5 r	th a stream of gently flowing water elids open. Remove contact lenses, minutes. Seek medical assistance if
Ingestion:			medical a		ter, induce vomiting and seek T induce vomiting or giving anything us person.
Most important symptoms delayed:	and effects, both ac	ute and			in and eye irritation. Systemic nted over many years' experience.
Indication of any immediat special treatment needed:		and	supportive as brachy supportive artificial re measures substance (gastrolax product is considere conscious Monitor b	ely. Check blood reardia and hypote measures for reespiration if signs to be considered from the body or age, saline laxate ingested the follows and it is less that lood count, gastr	n. Treat symptomatically and pressure and pulse rate frequently tonia are possible. Provide espiratory and cardiac action. Give s of paralysis appear. Additional d involve the elimination of the or acceleration of its excretion cives). If a large amount of this lowing measures should be omiting if the patient is fully an 30 minutes since ingestion. ic lavage, and charcoal sant therapy is not appropriate.
5) FIRE-FIGHTING MEAS	SURES:		1		
Extinguishing Media:			resistant	foam.	cal powder, water spray or alcohol-
Unsuitable Extinguishing I	Media:		High volu	me water jet due	to contamination risk.
Specific Hazards arising fr	om the substance/m	ixture:	compoun		or poisonous vapours (toxic ogen and chlorine), mists and other
Fire Fighting:			area and extinguish Fight fire holder or disposal. Avoid inh materials possible a unaffecte Do not so	evacuate downwhing agent for the from maximum demonitor nozzles.  aling hazardous of the contained without risk. It containers but	surrounding area. Isolate the fire wind. Use a recommended type of surrounding fire. Sistance and use unmanned hose Contain fire control agents for later wapours and fumes from burning temove container from fire area if Water can be used to cool must be contained for later disposal. material. Avoid pollution of the site.
Protective clothing:  6) ACCIDENTAL RELEA	SE MEASURES:		Full prote apparatus	-	d self-contained breathing

Personal precautions, protective equipment and emergency procedures:

Avoid contact with spilled product or contaminated surfaces. Do not breathe in spray or fumes. Clear the area and shut off the source of the leak only under safe conditions. Extinguish any sources of ignition nearby and downwind. Ensure adequate ventilation. Avoid contact with skin and eyes. For personal protection see Section 8.

**Environmental precautions:** 

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow to enter drains or watercourses. If contamination of water courses is unavoidable, report to the Police and the Department of Water/Environmental Affairs immediately. Considered as a marine pollutant.

Methods and material for containment and cleaning up:

Wear protective clothing and avoid breathing mist/vapour. Clear area of unprotected personnel. Ventilate area. Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in waste containers. Label containers with the contents and dispose of according to local regulations. Wash area with water and detergent and absorb with further inert material. Heavily contaminated soil layers must be dug out down to clean soil. If spill does enter waterways contact the local authority. 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. Open burning or dumping of this material is prohibited. Do not get water inside the containers.

#### 7) HANDLING & STORAGE:

**Precautions for Safe Handling:** 

Avoid skin and eye contact and inhalation of spray mist, fog or vapours. Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. Keep working clothes separately. Garments that cannot be cleaned must be destroyed by burning. Keep container tightly sealed. Handle and open the container with care and do not open until ready to use. Once the container is opened the contents should be used as soon as possible. Avoid aerosol formation. Provide a means for controlling leaks and spills, do not return residues to the storage containers. Follow all label warnings even after the container is emptied. Avoid all direct contact with the product. Wear suitable personal protection.

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.

Conditions for Safe Storage, including any incompatibilities:

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from animals, children or uninformed persons. Do not store for prolonged periods in direct sunlight. Protect from frost.

#### 8) EXPOSURE CONTROL / PERSONAL PROTECTION:

**Appropriate Engineering Controls:** 

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.

**Control Parameters: Occupational exposure limits:** 

Ingredient	CAS#	Limit	Basis
Thiamethoxam	153719-23-	3 mg/m <sup>3</sup>	TWA
	4		

#### PERSONAL PROTECTIVE EQUIPMENT:

Consult supplier to confirm that the equipment is suitable.

Clothing:

Employee must wear appropriate protective (impervious)

	clothing and equipment to prevent repeated or prolonged skin contact with this substance. Wash contaminated clothing and clean protective equipment before re-use.
Respiratory protection:	Wear an approved full-face respirator that is suitable for protection from spray and mists of pesticides.
Gloves:	Employee must wear appropriate chemical-resistant gloves to prevent prolonged, direct contact with this substance.
Eye protection:	The use of safety goggles with side shields is recommended.
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:	
Appearance:	Cream white liquid
Odour:	Characteristic odour
Solubility:	Suspends in water
pH:	6 - 8.5
Odour threshold:	Not available
Melting point / Freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point: Evaporation rate:	Not flammable  Not available
Flammability (solid, gas)	Not flammable
Upper/ lower flammability or explosive limits:	Not explosive
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	1.240
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not available
10) STABILITY & REACTIVITY:	1101 01 01 01 01
Reactivity:	No hazardous reactions if stored and handled as indicated.
Chemical Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Possibility of hazardous reactions:	No hazardous reactions if stored and handled as indicated.
Conditions to avoid:	Open flames, sparks, sources of ignition and dampness.
Incompatible materials:	Strong acids, oxidizers, dampness (in storage). Alkaline materials.
Hazardous decomposition product(s):	Can decompose at high temperatures and form toxic gasses, such as oxides of carbon and nitrogen.
11) TOXICOLOGICAL INFORMATION:	
Acute Toxicity:	I.B. 0.000 #
Oral:	LD <sub>50</sub> >2 000 mg/kg
Dermal: Inhalation:	$LD_{50} > 2\ 000\ mg/kg$ $LC_{50} > 3.5\ mg/L\ (4\ hours)$
Skin Corrosion/Irritation:	Mild-irritant
Serious Eye Damage/Irritation:	Mild Irritant
Respiratory or Skin Sensitization:	Not a sensitizer
Germ Cell Mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive Toxicity:	No data available
STOT-SE:	May cause respiratory irritation.
STOT-RE:	Causes damage to organs through prolonged or repeated exposure.
Aspiration Hazard:	No data available
12) ECOLOGICAL INFORMATION:	

Ecotoxicity:	
Birds:	Acute oral LD <sub>50</sub> for bobwhite quail 1552, mallard ducks 576
	mg/kg. Dietary LC <sub>50</sub> for bobwhite quail and mallard ducks
	>5200 mg/kg diet.
Fish:	LC <sub>50</sub> (96 h) for rainbow trout >100, bluegill sunfish >114,
	sheepshead minnows >111 mg/l.
Daphnia:	EC <sub>50</sub> (48 h) >100 mg/l.
Algae:	EC <sub>50</sub> (72 h) for <i>Selenastrum capricornutum</i> >81.8 mg/l.
Worms:	LC <sub>50</sub> (14 d) for <i>Eisenia fetida</i> >1000 mg/kg soil.
Bees:	0.024 (contact), 0.005 (oral) µg/bee.
Other:	LC <sub>50</sub> (96 h) for mysid shrimps 6.9 mg/l; EC <sub>50</sub> (96 h) for eastern
	oysters >119 mg/l.
Persistence and Degradability:	Soil DT <sub>50</sub> 7–109 d (field, 37 soils, median 32.3 d). Photolysis
	accelerates degradation in soil. Stable in water under acid
	conditions, hydrolysed under alkaline conditions. DT <sub>50</sub> in
	surface water 7.9-39.5 d (lab., darkness, 7 water-sediment
	systems, mean 21.5 d). Aqueous photolysis occurs rapidly.
	No significant volatilisation; efficiently degraded in air by
	photochemical oxidative degradation.
Bio-accumulative Potential:	No bioaccumulation.
Mobility in Soil:	K₀c 32.5–237 ml/g o.c. (25 soils, mean 68.4 ml/g o.c.).
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 cannot be reused and
	may be disposed of on site or at an approved chemicals
	waste disposal facility. Open dumping or burning of this
	pesticide is prohibited.
Container Disposal:	Refer to the product label for instructions.
	If the container is to be refilled, do not rinse with any material
	or introduce any pesticide other than this product.
	Destroy the empty container by perforation and flattening and
	dispose of it in a safe manner according to local regulations.
	DO NO REUSE THE CONTAINER FOR ANY OTHER
	PURPOSE.
	Do not transport if this container is damaged or leaking.
14) TRANSPORTATION INFORMATION:	Do not transport if this container is dallayed of leaking.
	LINIAN INDED COCC
Road Transport ADR / IRD:	UN NUMBER: 3082
	UN Proper Shipping name: ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Thiamethoxam)
	Transport Hazard Class: 9 Miscellaneous Dangerous Goods
	Packaging group: III
	Labelling no: 9
	Environmental Hazards: Not applicable
	Special Precautions for User: Read safety instructions, SDS
	and emergency procedures before handling.
Maritima Transport IMDC / IMO:	UN NUMBER: 3082
Maritime Transport IMDG / IMO:	
	UN Proper Shipping name: ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Thiamethoxam)
	Transport Hazard Class: 9 Miscellaneous Dangerous Goods
	Packaging group: III
	Labelling no: 9
	Environmental Hazards: Marine Pollutant
	Special Precautions for User: Read safety instructions, SDS
	and emergency procedures before handling.
Transport in Rulk (according to Appen II of MADDO)	Not applicable
Transport in Bulk (according to Annex II of MARPOL	Not applicable
73/78 and the IBC Code):	
15) REGULATORY INFORMATION:	
Safety, health and environmental	For the user of this plant-protective product applies: 'To avoid
regulations/legislation specific for the	risks to man and the environment, comply with the instructions
substance/mixture:	for use.' (Directive 1999/45/EC, Article 10, No. 1.2)
Januariano, illintare.	
Chemical Safety Assessment:	Advise an product handling can be found in acctions 7 and 0
Linemical Safety Assessment	Advice on product handling can be found in sections 7 and 8
Chemical Carety AddedSinent.	
-	of this safety data sheet.
16) OTHER INFORMATION:	of this safety data sheet.

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.

MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSES OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Date of issue: 11/05/2018

#### Abbreviations:

- 1. CAS number: Chemical Abstracts Service number.
- 2. CLP: Classification, Labelling, Packaging.
- 3. LD<sub>50</sub>: Lethal Dose for 50% of the test population.
- 4. LC<sub>50</sub>: Lethal Concentration for 50% of the test population.
- 5. DT<sub>50</sub>: Half-life.
- 6. GHS: Globally Harmonised System (of Classification and Labelling of Chemicals).
- 7. TWA: Total Weighted Average.

#### Literature References:

- GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html
- ECHA: https://echa.europa.eu/search-chemicals