



Safety Data Sheet

ICHIBAN 100 EW - Reg. No: L 9248 (Act No 36 of 1947)

Date of issue: 08/07/2013

Date of revision: 25/06/2019

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	ICHIBAN 100 EW
Other means of identification:	Alpha-cypermethrin 100 g/L EW
UN number:	2903
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:	A racemate comprising (S)- α -cyano-3-phenoxybenzyl (1 <i>R</i> ,3 <i>R</i>)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate and (R)- α -cyano-3-phenoxybenzyl (1 <i>S</i> ,3 <i>S</i>)-3-(2,2-dichlorovinyl)-2,2dimethylcyclopropanecarboxylate
2) Classification of the substance / mixture:	
Classification of the product:	Acute. Tox. 4 (oral) Aquatic Acute 1 Aquatic Chronic 1 Harmful if swallowed Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Full text of symbols and R-phrases: see section 15.
Label elements:	  Signal word: Warning Xn N R22 R50/53 S2 S13 S20/21

	S46 S29/35 S57 H302 H400 H410 P270 P264 P301 + P312 P330 P391 P501 Full text of symbols, R-phrases, S-phrases, H statements and P statements: see section 15.				
Health effects: eyes:	May cause irritation to eyes.				
Health effects: skin:	May cause sensitisation. Repeated exposure may cause skin dryness and cracking.				
Health effects: ingestion	Toxic if swallowed. May cause severe damage to health by prolonged exposure if swallowed. May cause lung damage if swallowed.				
Health effects: inhalation	May cause irritation to respiratory system.				
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
Alpha-cypermethrin	10%	67375-30-8	254-485-0	Acute Tox.4 (Inhalation – dust) Acute Tox. 3 (oral) STOT SE 3 (irr. To respiratory syst.) STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 10000 M-factor chronic: 1000 H332, H302, H401, H411	Xn N R22 R50/53 S2 S13 S20/21
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 15-20 minutes holding eyelids open. Remove contact lenses. Seek medical assistance, preferably an eye specialist.				
Skin contact:	Immediately remove contaminated clothing, shoes and leather good and wash body thoroughly with plenty of water and a non-abrasive soap. Wash contaminated clothing thoroughly before re-use. Seek medical assistance if irritation persists.				
Ingestion:	Never give anything by mouth to an unconscious person. If safe to do so, rinse mouth out with water. If patient is conscious, give the patient plenty of water to drink and keep the patient at rest. For advice, contact the National Poisons Centre. Seek medical assistance immediately.				
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.				

Most important symptoms and effects, acute and delayed:	None known
Indication of immediate medical attention and special treatment needed: Advice to physician	Treat symptomatically after decontamination. No specific antidote is known.
5) Fire-Fighting Measures:	
Suitable extinguishing media:	Carbon dioxide, alcohol-resistant foam, water fog dry extinguishing media.
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 may produce carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen cyanide.
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 containers but must be contained for later disposal. Do not scatter the material. Dispose of extinguishing agent and spillage in a safe way at a later stage. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) Accidental Release Measures:	
Personal precautions:	Avoid contact with skin, eyes and clothing. Wear personal protective clothing. Do not breathe in the fumes or spray. Remove contaminated clothing, undergarments and shoes immediately. 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. Remove all sources of possible ignition. Keep people and animals away. Reposition leaking containers to minimize further leakage. Small liquid spills: Pick up with a suitable absorbent material (such as sand, sawdust, general-purpose binder, diatomaceous earth). Large liquid spills: Dike the spillage. Pump off the product. Collect the product into specially marked and sealable containers for later disposal. Clean contaminated areas thoroughly with water and detergents whilst observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local regulations. Deal with spillages immediately. Do not allow the product to enter drains or water sources.
Disposal:	Waste Disposal: 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

	<p>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 NO 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 measures are needed if the product is stored and handled correctly.</p> <p>Do not the product use near sources of sparks or open flames as vapours may form ignitable mixtures with air. Prevent electrostatic charge. Keep fire extinguishers handy.</p> <p>Avoid contact with skin, eyes and clothing.</p> <p>Wash hands and/or face thoroughly with soap and water before eating, drinking, chewing gum, smoking, using the toilet or 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. Wash goggles or face shield and contaminated clothing thoroughly after each day's use. Remove clothing immediately if this product gets inside. Following this, wash the skin with water and a non-abrasive soap. Any water that is used to clean equipment must be disposed of correctly in order to avoid contamination. Suitable protective clothing should be worn when handling this product (see section 8).</p> <p>Keep product away from heat and protect from moisture. Store in original container tightly closed and in a locked, isolated, dry, cool and well-ventilated area away from unauthorised persons, children, animals, foodstuffs and feed.</p> <p>Protect product from direct sunlight.</p> <p>Protect from temperatures below 0°C and from temperatures above 40°C. If the product is stored outside of this temperature range for extended periods of time, then changes in the properties of the product may occur.</p> <p>Ensure that local regulations are complied with.</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>Consult supplier to confirm that the equipment is suitable.</p> <p>Body protection should be chosen depending on the activity and possibility of exposure. For example apron.</p>

<p>Gloves:</p> <p>Eye protection:</p> <p>Respiratory protection:</p> <p>Emergency eye wash:</p>	<p>protecting boots, chemical-protection suite.</p> <p>Suitable chemically resistant gloves also with prolonged, direct contact (Recommended: Protective index 6. >480 minutes of permeation time) For example 0.4 mm nitrile rubber, 0.5mm chloroprene rubber, 0.7mm polyvinylchloride etc.</p> <p>The use of safety goggles with side shields is recommended.</p> <p>Wear an approved respirator if ventilation is inadequate. Particle filter EN 143 Type P3 (high efficiency solid and liquid particles of toxic and very toxic substances).</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:	
<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>Partition coefficient: n-octanol/water</p> <p>Auto-ignition temperature:</p> <p>Viscosity:</p>	<p>Liquid</p> <p>White</p> <p>Characteristic</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>47 °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>No data available</p> <p>No data available</p> <p>In water 0.67 (pH 4), 3.97 (pH 7), 4.54 (pH 9), 1.25 (double distilled water) (all in µg/l, 20 °C) (Reference to alpha-cypermethrin)</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
10) Stability & Reactivity:	
<p>Reactivity:</p> <p>Chemical stability:</p> <p>Hazardous decomposition product(s):</p> <p>Conditions to avoid:</p> <p>Incompatible materials:</p>	<p>No data available.</p> <p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture Stable under standard conditions. Very stable in neutral and acidic media, hydrolyzed in strongly alkaline media</p> <p>Combustion or thermal decomposition will evolve irritant and toxic vapors such as oxides of carbon and nitrogen. No hazardous reactions or decomposition products should occur if the product is stored and handled as prescribed.</p> <p>No data available.</p> <p>No data available.</p>

11) Toxicological Information:

Acute:

Oral LD50 > 600 mg/kg, rat

Dermal LD50 > 4 000mg/kg, rabbit

Inhalation LC50 (4h): >2.31 mg/L/hr , rat

Skin irritation : Mild irritant

Eye irritation : High irritant

Sensitisation : Caused mild sensitization on laboratory animals, guinea pig.

Mutagenicity : Showed no mutagenic effects in animal experiments.

12) Ecological Information:

Information below based on active ingredient:

Bees: Toxic to bees. LD₅₀ (24 h) 0.059 µg/bee; LC₅₀ (24 h) 0.033 µg/bee. No toxic effect under field conditions.

Birds: Quail and Mallard ducks > 10 000 mg/kg

Fish : LC₅₀ (96 h) for rainbow trout 0.0024 mg/kg.

Algae : No data available.

Worms: No data available.

Other aquatic species: *Daphnia magna*, EC₅₀ (48 h) 0.1-3.0 µg/L

Persistence:

Alpha-cypermethrin is not easily bio-degradable. Undergoes degradation in soil, DT50 c. 13 w in loamy soil.

13) Disposal Considerations:

Waste Disposal : Product, waste and container must be dumped or incinerated In accordance with local and national regulations. Open dumping or burning of this product is prohibited.
Do not pour untreated waste or surplus product into public sewers or where there is any danger whatsoever of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with this product or the used containers. Do not contaminate water, food or feed by disposal.

Container Disposal : Triple rinse containers before disposal as follows: Invert the empty container over the spray or mixing tank and allow it to drain for at least 30 seconds after the flow has slowed down to a drip. Then, rinse the container three times with a volume of water equal to at least 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner Do not re-use the empty container for any other purpose. Destroy the container by perforation and flattening and dispose of in the same manner as the product. Prevent contamination of food, feedstuffs, eating utensils and drinking water.

14) Transportation Information:

UN Number: 3351

Road transport ADR/RID

Class: 6.1

Packaging group: III

Shipping name: Pyrethroid pesticide, liquid, toxic, flammable flash point 23 °C or more NOS.
(alpha-cypermethrin)

Air transport: ICAO / IATA

Class: 6.1

Packaging group: III

Shipping name: Pyrethroid pesticide, liquid, toxic, flammable flash point 23 °C or more NOS.
(alpha-cypermethrin)

Maritime transport: IMDG

Class: 6.1

Packaging group: III

Shipping name: Pyrethroid pesticide, liquid, toxic, flammable flash point 23 °C or more NOS.
(alpha-cypermethrin)

Very toxic (acute effect) to aquatic organisms.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): Not applicable
Special precautions: None known

15) Regulatory Information:

Symbols: N - Dangerous for the environment

T – Toxic

Xn - Harmful

Risk – Phrase:

R20 - Harmful by inhalation.

R22 - Harmful if swallowed.

R25 - Toxic if swallowed.

R37 - Irritating to respiratory system.

R43 - May cause sensitisation by skin contact.

R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed.

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

R65 - Harmful: May cause lung damage if swallowed.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapors may cause drowsiness and dizziness.

Safety – Phrase:

S 1/2 - Keep locked up and 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.

S24 - Avoid contact with skin.

S29/35 - Do not empty into drains; dispose of this material and its container in a safe way.

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

S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

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

S57 - Use appropriate container to avoid environmental contamination.

S62 - If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label.

Hazard Statements

H302 - Harmful if swallowed.

H332 - Harmful if inhaled.

H400 - Very toxic to aquatic life.

H401 - 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

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

P264 - Wash thoroughly after handling.

P301 + P312 - If SWALLOWED call a POISON CENTER/ doctor

P330 - Rinse mouth.

P391	- Collect spillage.
P501	- Dispose of contents / container in accordance with local and national regulations

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.

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