









**FIRST AID:**

**Ingestion:** Do not induce vomiting. Seek a doctor immediately, leading the pack, the label, package insert or the agronomic prescription product.

**Eyes:** Flush with plenty of water and if irritation look soon doctor, leading the pack, label, package insert or the agronomic prescription product.

**Skin:** Wash with plenty of soap and water and if irritation look soon the doctor, leading the pack, label, package insert or the agronomic prescription product.

**Inhalation:** Seek airy place.

**EMERGENCY MEDICAL TREATMENT AND ANTIDOTE:**

- The configuration of diagnosis is by treatment symptomatic.
- In cases of severe intoxication, should be included in therapy sedative and anticonvulsant (for example barbiturates, diazepam, paraldehyde, etc.). The use of antispasmodic drug is of limited value. Mephenesin and atropine have been considered effective for relief pyrethroid poisoning symptoms in animals' laboratories. If a large amount of permethrin was ingested, even the patient being unconscious or vomiting, flushing, gastric be performed using a 5% solution of bicarbonate sodium, followed by activated charcoal powder.
- For skin contacted, wipe any remaining liquid on the skin with absorbent material readily available, then wash affected area with soap and warm water alkaline.
- If skin irritation occurs, treat with cream and soothing skin avoid direct exposure to light.
- In infected eyes, wash them with baking soda or 4% of another aqueous alkaline solution non-irritating.

**MECHANISM OF ACTION FOR ABSORPTION AND EXCRETION HUMAN:****Mechanism of Action:**

Permethrin is a synthetic pyrethroid, a neurotoxic agent of low toxicity to mammals. The risk to health is considered minimized by low concentrations of the active ingredient in all formulations.

**Routes of Absorption:**

Permethrin is rapidly absorbed by the tract gastrointestinal, minimally by skin contact, and inhalation of particles sprayed.

**Excretion:** Permethrin administered to mammals was rapidly metabolized and completely eliminated from the body in service time. The equivalent 50% is excreted within 48 hours and is complete in 8 to 12 days after administration.

**CHRONIC AND ACUTE EFFECTS:****Acute effects:**

Permethrin may induce irritability of the skin and paraesthesia (Topor, itching, tingling and burning) in exposed workers, after a latent period approximately 30 minutes with a peak after 8 hours and disappearance within 24 hours.

**Chronic Effects:** No cause of poisoning in humans has been reported. The dose of non-observable effects in studies of 2 years in rats was 100 mg / kg corresponding to 5.0 mg / kg of body weight.

**Side effects:** Since no therapeutic effect of the product is expected to humans, any of the above effects are considered side.

**EMERGENCY TELEPHONE NUMBERS:**

Toxicological Information Center: (011) 275-5311

Company Telephone: (011) 481-5200.

**WARNINGS AND PRECAUTIONS FOR USE AS TO CARE**

**ENVIRONMENTAL PROTECTION:**

- This product is:

**VERY DANGEROUS TO THE ENVIRONMENT (Class II).**

- This product is **HIGHLY TOXIC** to aquatic organisms.
- Avoid environmental contamination. **Preserve Nature.**
- Do not use equipment leaking.
- Do not apply the product in the presence of strong winds in the hours or more hot.
- Apply only the recommended doses.
- Do not wash equipment or packaging applicator in ponds, fountains, rivers and other water bodies. Avoid water contamination.
- The improper disposal of packaging or waste products causes contamination of soil, water and air, damaging the fauna, flora and health.
- Do not run the aerial application of pesticides in areas located at a closer than five hundred (500) meters of the village and watershed water abstraction, detached villas, pools and animals vegetation susceptible to damage.
- Observe the provisions in state law and municipal related to the activities aeroagrícolas.

**2nd. STORAGE INSTRUCTIONS PRODUCT WITH REGARD TO YOUR**

**CONSERVATION AND ACCIDENT PREVENTION:**

- Keep the product in its original packaging, always closed.
- The site should be unique for toxic and should be isolated from food, beverage or feed materials.
- Construction should be masonry or noncombustible material.
- The place should be ventilated, covered and have waterproof floor.
- Place warning sign that read: **CAUTION POISON.**
- Lock the site, preventing access by unauthorized persons, especially children.
- There should always be adequate packaging available to engage packaging for broken or leaked product recall.
- In case of warehouses, should follow the instructions set NBR 9843 the Brazilian Association of Technical Standards - ABNT
- Observe the provisions of state law and municipal.

**3rd. INSTRUCTIONS IN CASE OF ACCIDENT:**

- Isolate and signal contaminated area.
- Contact the local authorities and the Company **FERSOL INDUSTRY AND TRADE LTD.** - Emergency telephone (011) 4026 - 6200, or the Poison Control Center at (011) 5012 – 5311.
- Use personal protective equipment PPE (overalls, PVC gloves and rubber boots, goggles and masks with filters).
- In case of a spill, the flow tight, not allowing the product please culverts, drains or water bodies. Follow the instructions below:
  - 1) **Paved floor:** absorb the product with sawdust or sand, the collection material with the aid of a shovel and place in sealed container and properly identified. Spilled product should no longer be used. In this case, refer to the registrant, by telephone indicated the label for the return and disposal.
  - 2) **Solo:** remove the contaminated soil layers until it reaches the ground not contaminated, collect the material and place in a sealed container and properly identified. Contact the company as registrant above.
  - 3) **Waterbodies:** Immediately discontinue the funding for the human or animal consumption, contact the environmental agency and the nearest emergency center of the company, as the measures to be adopted depend on the proportions of the accident, the characteristics of the body water in question and the amount of product involved. In case of **fire** extinguishers, use water in the form of mist, CO 2 or powder, staying downwind to avoid poisoning.

**4th. HOW TO WASH, STORAGE, RETURN, TRANSPORTATION AND ALLOCATION OF EMPTY CONTAINERS AND REMAINS PRODUCTS SUITABLE FOR USE OR into disuse:****- Wash Package:**

During the washing procedure the operator must be using the same PPE - Personal Protective Equipment recommended for- preparing the solutions of the product.

**• Triple Dry (Manual Dry):**

This package must be subjected to the process of Triple Dry, immediately after emptying, adopt the following:

- Completely empty the contents of the package in the spray tank, keeping it in vertical position for 30 seconds;
- Add clean water to pack up to ¼ of its volume;
- Cover tightly and shake it for 30 seconds;
- Pour the wash water in the spray tank;
- Do this three times;
- Dispose of the plastic or metal piercing the bottom.

**• Pressure Washing:**

Using sprayers equipped with pressure washing equipment the following procedures:

- Attach the empty package in the appropriate place in the funnel installed spray;
- Activate the mechanism to release the water jet;
- Direct the jet of water to all internal walls of the pack for 30 seconds;

- The wash water should be transferred to the spray tank;
- Dispose of the plastic or metal, piercing the bottom. When using the equipment independent to pressure washing follow the following:
  - Immediately after emptying the contents of the original packaging, keeping it inverted over the mouth of the spray tank in an upright position, for 30 seconds;
  - Keep container in this position, insert the tip of the equipment pressure washing, directing the water jet to all walls inner packing for 30 seconds;
  - All water wash is addressed directly to the spray tank;
  - Dispose of the plastic or metal, piercing the bottom.

**- STORAGE OF EMPTY PACKAGING**

After completion of the Triple Wash or Dry Heat, this package should be stored with the lid on outer box when existing separately from unwashed containers. The storage of empty containers, until his return user must be done in a covered, ventilated, rain and under-floor waterproof, or at the place where stored the filled containers.

**- RETURN OF EMPTY PACKAGING**

Within one year from date of purchase, is required to return the empty container with lid, by the user, where the establishment was purchased the product or the location indicated in the invoice issued at the time of purchase. If the product has not been fully utilized in this period, and is still within the validity period shall be provided to return the package within 6 months after the end of its shelf life. You should retain proof of return for inspection, minimum period of one year after the return of the empty package.

**- TRANSPORT**

The empty containers cannot be transported with food, drinks, medicines, feed, animals and people.

**- RIGID PACKAGING non-washable**

**- THIS PACKAGE CAN NOT BE WASHED**

**- STORAGE OF EMPTY PACKAGING**

The storage of empty packaging, until his return, user must be done in a covered, ventilated, rain and under-floor waterproof - on the spot where the filled containers are stored.

Wear gloves when handling this package.

This equipment must be stored with their caps in collective housing, when existing separately from containers washed.

**- RETURN OF EMPTY PACKAGING**

Within one year from date of purchase, is required to return the empty container with lid, by the user, where the establishment was purchased the product or the location indicated in the invoice issued at the time of purchase.

If the product has not been fully utilized in this period, and is still within the validity period shall be provided to return the package within 6 months after the end of its shelf life. You should retain proof of return for inspection, minimum period of one year after the return of the empty package.



**- TRANSPORT**

The empty containers cannot be transported with food, drinks, medicines, feed, animals and people.

**FLEXIBLE PACKAGING****- THIS PACKAGE CAN NOT BE WASHED****- STORAGE OF EMPTY PACKAGING**

The storage of empty packaging, until his return, user must be done in a covered, ventilated, rain and under-floor waterproof - on the spot where the filled containers are stored.

Wear gloves when handling this package.

This empty package should be stored separately from washed in clear plastic bag (Standardized Packaging – model ABNT) properly identified and sealed, which must be purchased in Channels Distribution.

**- RETURN OF EMPTY CONTAINERS**

Within one year from date of purchase, is required to return of the empty container with lid, by the user, where the establishment was purchased the product or the location indicated in the invoice issued at the time of purchase.

If the product has not been fully utilized in this period, and is still within the validity period shall be provided to return the package within 6 months after the end of its shelf life. You should retain proof of return for inspection, minimum period of one year after the return of the empty package.

**- TRANSPORT**

The empty containers cannot be transported with food, drinks, medicines, feed, animals and people. Must be transported in clear plastic bag (Standardized Packaging - model ABNT) properly identified and seal, which must be purchased in Channels Distribution.

**CARTON****- THIS PACKAGE CAN NOT BE WASHED****- STORAGE OF EMPTY PACKAGING**

The storage of empty packaging, until his return, user must be done in a covered, ventilated, rain and under-floor waterproof - on the spot where the filled containers are stored.

**- RETURN OF EMPTY PACKAGING**

It is mandatory to return the empty package, which was purchased by the user product or the location indicated in the invoice issued by the establishment commercial.

**- TRANSPORT**

The empty containers cannot be transported with food, drinks, medicines, feed, animals and people.

**- FINAL DESTINATION OF EMPTY CONTAINERS**

The disposal of empty containers, after the handover by users, can only be performed by the Company or by companies Registrant legally authorized by the competent bodies.

**- IT IS FORBIDDEN TO YOU REUSE AND RECYCLE THIS EMPTY CONTAINERS OR FRACTIONATION THIS AND REPACKAGING PRODUCT.**

**- EFFECTS ON THE ENVIRONMENT DUE TO DESTINATION INADEQUATE AND REMAINS EMPTY PACKAGING PRODUCTS**

The improper disposal of empty containers and waste products in the middle environment cause contamination of soil, water and air, harming wildlife, flora and human health.

**- PRODUCTS FOR IMPROPER USE OR disused**

If this product should become unfit for use or disuse refer to the registrant by telephone on the label for its return and disposal. The deactivation of the product is done through incineration ovens designed for this type of operation, equipped with cameras scrubber effluents and approved by the competent body.

**TRANSPORT OF PESTICIDES, AND RELATED COMPONENTS:**

The carriage is subject to the rules and procedures laid down in specific legislation, which includes monitoring the form of emergency product and determines that the pesticide cannot be transported with people, animals, feed, drugs or other materials.