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Salclear Stingsolve

Responding to market demands our company has created Stingsolve under the Salclear brand.

Salclear Stingsolve is an effective treatment for common jellyfish stings. It is an active remedy that should be applied onto and around the skin areas affected by the sting, and it quickly neutralises the activity of the living sting cells (nematocytes).

In particular the product works by attacking still active sting cells that have not yet discharged their toxin, and hence Salclear Stingsolve is most effective in preventing further stings and pain, rather than eliminating the pain associated with stings that have already taken place.

Fortunately, most jellyfish stings are not severe. Common jellyfish stings, which do not include dangerous species such as the Box jellyfish and the Portuguese Man of War, in less serious cases cause localised pain, swelling and discomfort. The best ways to treat such stings include a topical application of an appropriate product such as Salclear Stingsolve to negate the effects of still active sting cells.

Normally a physician should then be consulted and in more serious cases It can be common practice to provide antihistamine drugs or cream, and painkillers coupled with topically applied anaesthetic creams or those used to reduce inflammation.

Jellyfish sting cells appear similar from one species to another, but the venom differs in composition. For example, because the Box jellyfish feeds on fish larger than its own body, it requires potent venom for rapid paralysis. While

the amount of toxin expressed by a single nematocyst is minute, several thousand nematocysts discharging at once have a significant effect.

Functionally, the toxin disrupts cellular membranes, and releases an inflammatory reaction in the body affecting the nervous tissue and kidneys. The toxins can contain histamines, and hence antihistamine drugs can be an effective remedy. Immediate acute reactions to the venom tend to be toxic rather than allergic.

How to deal with common jellyfish stings.

A general method of treatment* of moderate to more serious common jellyfish stings is as follows:

Local skin treatment involves immediate sting cell/nematocyte inactivation, analgesia, and removal.

- Rinse the wound with sterile normal saline water to prevent nematocyte activation. Although seawater can be used as a last resort, it carries marine pathogens into the wound. Avoid using fresh water and rubbing the skin, since these activities trigger active sting cells.
- Soak the wound in Salclear Stingsolve for 10-20 minutes to further inhibit sting cell discharge. Note, although our product inhibits sting cell activity, it **does not** provide pain relief.
- After the inactivation, carefully remove any visible tentacles with forceps, followed by the removal of the sting cells if visible and accessible.
- Apply topical anesthetics once the nematocytes/nematocysts are removed. Cold pack compresses at the sting site for 5-10 minutes relieve all but the most severe site pain. Avoid direct application of ice to the area, since the hypotonic water from the melting ice may stimulate unremovable, active sting cells. Also, avoid hot compresses, since they increase systemic uptake of venom.
- Administer antihistamines and topical and systemic corticosteroids for severe local reactions as well as to decrease the probability of serum sickness symptoms from the antivenom, provided no secondary concurrent infection is present.
- Administer muscle relaxants (eg, benzodiazepine, methocarbamol) for severe local spasms.
- Narcotic analgesias are appropriate for severe local pain not responding to topical anaesthetics.
- Administer a tetanus shot as a prophylactic measure.
- Administer systemic antibiotics if signs of secondary infection exist.

- - for use as a guide only and not as a formal approved medical procedure. Please consult a qualified physician.

Salclear Stingsolve is supplied in a handy 50ml plastic bottle with screw cap and dropper nozzle. The formulation is dispensed quickly and easily, and one bottle would normally be sufficient to cope with numerous stings over exposed skin (arms, legs, hands, torso, abdomen etc).

After application it should be left on the skin for between 10 and 20 minutes, and can be reapplied as required. It should then be rinsed away with cold sea water, or saline solution before consultation with a physician.

Salclear Chemical Engineering for the Leisure Industry.

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