



H.O. : 101 / 102, Kanchanganga, Factory Lane, Borivli (West), Mumbai - 400 092, INDIA.

Tel. : 91-22-2898 2133 / 44, 2898 7912 / 14, 2898 4439 / Fax : 91-22-2899 3948 Website : www.heranba.com

Marketing Office : 201/202, Dwarkesh, Above Tribhuvandas Bhimji Jhaveri, L. T. Road, Borivli (W), Mumbai - 400 092. INDIA.

Tel. : 91-22-2833 8443 / 44 / Fax : 91-22-2833 8445 / e-mail : heranba@vsnl.com

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE:

Product name: Beta-cyfluthrin 2.45% SC

Chemical group Synthetic pyrethroid

Use: Insecticide.

Formulation Suspension Concentrate (SC)

Supplier: Heranba Industries Limited

Address: 101/102, Kanchanganga, Factory Lane, Borivli (W), Mumbai - 400 092, INDIA.

Telephone: +91-22-898 0860, 28338444, 55774055

Facsimile: +91-22-833 8445

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2. COMPOSITION/INFORMATION ON INGREDIENTS

	Concentration (% w/w)
Beta-cyfluthrin	2.45
Other ingredients	Q.S.

3. EXPOSURE CONTROL

Engineering controls: No special ventilation is required, as this product is not volatile.

Control process conditions to avoid contact. Use local exhaust ventilation while spraying, if possible.

4. PERSONAL PROTECTION

Respiratory protection: Respiratory protection is not required under anticipated circumstances of exposure

Hand protection: Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection: Wear goggles

Skin and body protection: Wear standard coveralls and Category 3 Type 6 suit.

5. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white to light beige coloured viscous liquid

pH: 40-5.5

Suspensibility: 70 %

6. FIRE AND EXPLOSION HAZARD

Suitable: Water spray, Carbon dioxide (CO₂), Foam, Sand

Special hazards arising from the substance or mixture: In the event of fire the following may be released: Carbon monoxide (CO)

Special protective equipment for firefighters: In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Further information: Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.



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12. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.

Conditions to avoid: Extremes of temperature and direct sunlight.

Incompatible materials: Store only in the original container.

Hazardous decomposition products: No decomposition products expected under normal conditions of use.

8. TOXICOLOGICAL DATA (A.I.)

Acute oral toxicity

LD50 (Rat) 1,600 mg/kg

Acute inhalation toxicity

LC50 (Rat) > 0.777 mg/l

Exposure time: 4 h

Determined in the form of a respirable aerosol. Highest attainable concentration.

Acute dermal toxicity

LD50 (Rat) > 5,000 mg/kg

Skin corrosion/irritation

No skin irritation (Rabbit)

Serious eye damage/eye irritation

No eye irritation (Rabbit)

Respiratory or skin sensitisation

Skin: Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Buehler test

9. HANDLING AND STORAGE

Handling: Use only in a well-ventilated area. Avoid contact with skin and eyes. Do not spray facing the wind.

Storage: Store product in the closed, original container in a safe, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Protect from frost.

10. HEALTH HAZARD INFORMATION

Acute toxicity, oral

Acute toxicity, inhalation

Hazardous to the aquatic environment, long-term hazard

11. FIRST AID MEASURES

General advice

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Inhalation

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.



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Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.
Ingestion	Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Call a physician or poison control center immediately.

12. SPILLS, LEAKAGE & DISPOSAL PROCEDURES

Leakage or spills	Try to prevent further leakage or spillage. Keep the product away from drains or water courses.
Product	In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.
Contaminated packaging	Not completely emptied packagings should be disposed of as hazardous waste.

13. TRANSPORT INFORMATION

UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA-CYFLUTHRIN SOLUTION)
Transport hazard class(es)	9
Packaging Group	III
Environm. Hazardous Mark	YES
Hazard no.	90
Hazchem Code	3Z
Tunnel Code	-

14. REGULATORY INFORMATION

Risk phrases: R36 - Irritating to eyes.
R65 - Harmful: May cause lung damage if swallowed.
Safety phrases: in case of accident, flush eyes or skin with copious amounts of water; remove contaminated clothing and shoes; call a physician.

15. DISCLAIMER

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.