

1. IDENTIFICATION OF THE SUSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: LAMBDA CYHALOTHRIN 5%EC

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2. COMPOSITION/INFORMATION ON INGREDIENT

PRODUCT DESCRIPTION : A PYRETHROID INSECTICIDE

HAZARDOUS INGREDIENT:

[1A(S*),3A(Z)]-CYANO(3-PHENOXYPHENYL)METHYL-3-(2-CHLORO-3,3,3-TRIFLUORO-1-PROPENYL)-2,2-

DIMETHYLCYCLOPROPANECARBOXYLATE [91-465-08-6]

PHYSICAL CHEMISTRY:

COMPOSITION GRADE 5%Light yellow homogenous liquid

S.G./DENSITY 1.33G/ML AT 25°C

3. HAZARDS IDENTIFICATION:

TOXICITY CLASS:LOW TOXIC

4. FIRST-AID MEASURES

ADVICE. DO NOT GIVE ANY SOLID TO THE PERSON. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO A BY A POISON CONTROL CENTER OR DOCTOR. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF IN EYES: HOLD EYE OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15-20 MINUTES. REMOVE CONTACT LENSES,

IF PRESENT, AFTER 5 MINUTES, THEN CONTINUE RINSING EYE. CALL A DOCTOR FOR TREATMENT ADVICE.

IF ON SKIN OR CLOTHING: TAKE OFF CONTAMINATED CLOTHING. RINSE SKIN IMMEDIATELY WITH PLENTY OF WATER FOR 15-20 MINUTES. CALL A DOCTOR FOR TREATMENT ADVICE.

IF INHALED: MOVE PERSON TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL AN AMBULANCE, AND THEN GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH IF POSSIBLE. CALL A POISON CONTROL CENTER OR DOCTOR FOR FURTHER TREATMENT ADVICE.

5. FIRE-FIGHTING PROTECTIVE EQUIPMENT

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS DURING A FIRE, IRRITATING AND POSSIBLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION. IN CASE OF FIRE USE DRY CHEMICAL, FOAM OR CO2 EXTINGUISHING MEDIA. WEAR FULL PROTECTIVE CLOTHING AND

SELF-CONTAINED BREATHING APPARATUS. EVACUATE NONESSENTIAL PERSONNEL FROM THE AREA TO PREVENT HUMAN EXPOSURE TO FIRE, SMOKE, FUMES OR PRODUCTS OF COMBUSTION. PREVENT USE OF CONTAMINATED BUILDINGS, AREA, AND EQUIPMENT UNTIL DECONTAMINATED. WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. IF WATER IS USED TO FIGHT FIRE, DIKE AND COLLECT RUNOFF.

6. ACCIDENTAL RELEASE MEASURES

SPILLAGE: ISOLATE AND POST SPILL AREA. WEAR PRESCRIBED PROTECTIVE CLOTHING AND EQUIPMENT. KEEP OUT UNPROTECTED PERSONS AND ANIMALS. KEEP MATERIAL OUT OF STREAMS AND SEWERS. DIKE TO CONFINE SPILL, AND ABSORB WITH ABSORBENT SUCH AS CLAY, SAND OR CATLITTER. VACUUM, SHOVEL OR PUMP WASTES INTO AN APPROVED DRUM TO DECONTAMINATE SPILL AREA, TOOLS, AND EQUIPMENT. WASH WITH A SUITABLE SOLUTION (I.E., ACETONE, DETERGENT, BLEACH OR CAUSTIC), AND ADD THE SOLUTION TO DRUMS OF WASTES ALREADY COLLECTED. LABEL DRUMS FOR CONTENTS. DISPOSE OF DRUMMED WASTES, INCLUDING DECONTAMINATION SOLUTION, ACCORDING TO THE METHOD OUTLINED BELOW UNDER "WASTE DISPOSAL"

UNCONTROLLED DISCHARGE: SPILLAGE OR UNCONTROLLED DISCHARGES INTO WATERCOURSES MUST BE ALERTED TO THE APPROPRIATE REGULATORY.

7. HANDLING AND STORAGE CAUTIONS:

HANDLING: READ THE LABEL BEFORE USE. AVOID ALL CONTACT BY MOUTH. AVOID CONTACT WITH SKIN AND EYES. WHEN USING DOES NOT EAT, DRINK OR SMOKE. WASH FACE AND HANDS BEFORE EATING, DRINKING OR SMOKING. DO NOT CONTAMINATE WATER, FOOD, OR FEEDS BY STORAGE OR DISPOSAL. DO NOT USE SPRAY EQUIPMENT CONTAMINATED WITH THIS PRODUCT FOR ANY OTHER PURPOSED UNLESS THOROUGHLY CLEANED WITH A SUITABLE CLEANER.

STORAGE (UNSUITABLE CONTAINERS, STORAGE LIFE): KEEP LOCKED UP. KEEP IN ORIGINAL CONTAINERS, TIGHTLY CLOSED, OUT OF REACH OF CHILDREN. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS, PROTECT FROM FROST. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

8. STABILITY AND REACTIVITY

THERMALLY STABLE AT ROOM TEMPERATURE.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE CLOTHING: WEAR FACE MASK, NEOPRENE APRON WHEN UNLOADING OR HANDLING CONTAINERS CONTAINING POWDER, DUST, OR GRANULAR FORMULATIONS..

10. TOXICOLOGICAL INFORMATION

(RAT) ORAL LD₅₀: 79MG/KG. (RAT) DERMAL LD₅₀: >632-696MG/KG
EYE AND SKIN CONTACT: NO- IRRITATING TO SKIN (RABBITS). HIGHLY IRRITATING TO EYES(RABBITS)
LONG TERM EXPOSURE: NOT VALIABLE
NEUROTOXICITY: REVERSIBLE CLINICAL SIGNS OF NEUROTOXICITY IN MAMMALS
REPRODUCTIVE EFFECTS: NOT A DEVELOPMENTAL OR REPRODUCTIVE TOXICANT
CHRONIC/SUBCHRONIC TOXICITY STUDIES: REVERSIBLE PARESTHESIA (ABNORMAL SKIN SENSATION).
CARCINOGENICITY: NO TREATMENT-RELATED TUMORS IN RATS OR MICE

11. ECOLOGICAL INFORMATION

SUMMARY OF EFFECTS

TOXIC TO FISH. VERY TOXIC TO AQUATIC ORGANISMS.

ECO-ACUTE TOXICITY:

RAINBOW TROUT 96-HOUR LC₅₀ 0.44 UG/L

DAPHNIA MAGNA 48 HOURS EC₅₀ 0.36 UG/L

GREEN ALGAE EC₅₀ >1 MG/L

PSEUDOMONAS PUTIDA IC₅₀ >1 MG/L

ECO-CHRONIC TOXICITY: NOT AVAILABLE AT THIS TIME.

ENVIRONMENTAL FATE:

NO DATA AVAILABLE FOR THE FORMULATION. THE INFORMATION PRESENTED HERE IS FOR THE ACTIVE INGREDIENT, LAMBDA-CYHALOTHRIN. A THOROUGH REVIEW OF ENVIRONMENTAL INFORMATION IS NOT POSSIBLE IN THIS DOCUMENT. FOR ADDITIONAL INFORMATION CALL THE TOLL FREE NUMBER LISTED IN SECTION 16. SOIL/ENVIRONMENT: RAPIDLY DEGRADED IN SOIL; DT₅₀ FOR MICROBIAL DEGRADATION 23-82 D. FOR FIELD SOIL 6-40 D. STRONGLY ADSORBED TO SOIL AND SEDIMENT ORGANIC MATTER. KOC 330000. NEGLIGIBLE POTENTIAL FOR LEACHING OF LAMBDA-CYHALOTHRIN AND ITS DEGRADATION PRODUCTS THROUGH SOIL. RAPID DISSIPATION FROM WATER IN AQUATIC SYSTEMS. DT₅₀ FOR DISSIPATION FROM SURFACE WATERS IN LAB WATER-SEDIMENT SYSTEMS 5-11 H; IN A MICROCOSM DT₅₀ <3 H. RAPID AND EXTENSIVE DEGRADATION OF PARENT COMPOUND IN AQUATIC SYSTEMS; DT₅₀ FOR DEGRADATION IN LAB WATER-SEDIMENT SYSTEMS 7-15 D; IN A MICROCOSM DT₅₀ <3 H, DT₉₀ <3 D.

12. DISPOSAL CONSIDERATIONS

IN A UNIT WITH EFFLUENT GAS SCRUBBING. WHEN NO INCINERATOR IS AVAILABLE, BURY IN AN APPROVED DUMP, OR IN AN AREA WHERE THERE IS NO RISK OF CONTAMINATION OF SURFACE OR GROUNDWATER. COMPLY WITH ANY LOCAL LEGISLATION.



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13. TRANSPORT INFORMATION

TAKE WITH CARE. KEEP LOCKED UP. KEEP AWAY FROM FIRE. DO NOT
CONTAMINATE WATER, FOOD, OR FEEDS BY STAGE OR DISPOSAL.