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Material Safety Data Sheet

Revision Date: June 6, 2008

1. IDENTIFICATION OF SUBSTANCE:

Trade name: Deltamethrin

Product Number: D-6153

Manufacturer/Supplier:

LC Laboratories

165 New Boston Street

Woburn, MA 01801 USA

+1-781-937-0777 Fax: +1-781-938-5420

2. COMPOSITION/DATA ON COMPONENTS:

Chemical Name: (S)-a-Cyano-3-phenoxybenzyl (1R)-cis-3-(2,2-dibromo-vinyl)-2,2-dimethylcyclopropanecarboxylate

Synonyms:

Hazardous Ingredient: Deltamethrin

CAS Registry Number: 52918-63-5

Molecular Weight: 505.20

Molecular Formula: C₂₂H₁₉Br₂NO₃

3. HAZARDS IDENTIFICATION:

Hazard Description: Highly Toxic (USA) Toxic (EU)

Dangerous for the environment

Harmful in contact with skin; readily absorbed through skin system

Toxic by inhalation

Very toxic if swallowed

May cause sensitization by inhalation and skin contact

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Target organ(s): central nervous system, cardiovascular system

Information pertaining to particular dangers for man and environment:

HMIS Ratings: Health =1 Flammability =0 Reactivity =0

4. FIRST AID MEASURES:

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration

After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

After eye contact: flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician

After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

5. FIRE FIGHTING MEASURES:

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam
Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire hazard: may emit toxic fumes under fire conditions

6. ACCIDENTAL RELEASE MEASURES:

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves
Measures for cleaning/collecting: absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

7. HANDLING AND STORAGE:

Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant
Storage: store solid and solutions at -20 °C

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Personal protective equipment as follows:
Breathing equipment: NIOSH/MSHA-approved respirator
Protection of hands: chemical-resistant rubber gloves
Eye protection: chemical safety goggles

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form:
Color:
Odor: none
Melting point/Melting range:
Danger of explosion: none
Solubility in / Miscibility with water: not soluble
Solvent content: none
Organic solvents: soluble in DMSO, ethanol, or acetone

10. STABILITY AND REACTIVITY:

Stability: avoid acids and bases
Thermal decomposition / conditions to be avoided: protect from light and heat
Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION:

RTECS #: GZ1233000
Acute toxicity: none known
Primary irritant effect:
On the skin: none known
On the eye: not known; may be an irritant

12. ECOLOGICAL INFORMATION:

General notes: no data available

13. DISPOSAL CONSIDERATION:

Dispose of in accordance with prevailing country, federal, state and local regulations

14. TRANSPORT INFORMATION:

DOT:
Proper shipping name: none
Non-Hazardous for transport: this substance is considered to be non-hazardous for transport
IATA class:
Proper shipping name: none
Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

15. REGULATIONS:

Code letter and hazard designation of product:
Hazard-determining components of labeling:
EU Risk And Safety phrases:
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28: After contact with skin, wash immediately with plenty of water
S29: Do not empty into drains
S36/37/39: Wear suitable protective clothing, gloves, and eye/face protection
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S53: Avoid exposure - obtain special instructions before use
R21: Harmful in contact with skin
R23: Toxic by inhalation
R27/28: Very toxic in contact with skin and if swallowed

16. OTHER INFORMATION:
The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user. LC Laboratories disclaims all liability for any damage resulting from use of this material.

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