

Material Safety Data Sheet

Cypermethrin

1. IDENTIFICATION OF SUBSTANCE:

Trade name: Cypermethrin

2. COMPOSITION/DATA ON COMPONENTS:

Chemical Name: (R,S)- α -Cyano-(3-phenoxyphenyl)methyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Synonyms:

Hazardous Ingredient: Cypermethrin

Molecular Weight: 132.91

Molecular Formula: C₂₂H₁₉Cl₂NO₃

3. HAZARDS IDENTIFICATION:

Hazard Description:

RTECS Substance categories: Mutagen;

Reproductive effectors

Exposure may cause irritation to eyes, mucous membranes, upper respiratory tract and skin;

Exposure may also cause the following: effect fertility and/or unborn and breastfed babies; somnolence; convulsions, seizures or tremor;

salivary gland changes; motor activity changes muscle contraction; urine volume increase;

immuneresponse decrease; proteinuria;

hypoglycemia; blood clotting factor changes

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

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9. PHYSICAL AND CHEMICAL PROPERTIES:

Form:

Color:

Odor:

Melting point/Melting range:

Danger of explosion: none

Solubility in / Miscibility with water: not soluble

Solvent content: none

Organic solvents: soluble in methanol or acetone

9. 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 #: GZ1250000

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:

S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

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)

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed

R36/38: Irritating to eyes and skin

R62: Possible risk of impaired fertility

R63: Possible risk of harm to the unborn child

R68: Possible risk of irreversible effects

. 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.

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