



MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF PRODUCT & COMPANY

Product Name: Cythroid 10% WP

Active Ingredient: Cyfluthrin

Chemical Name: cyano(4-fluoro-3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate

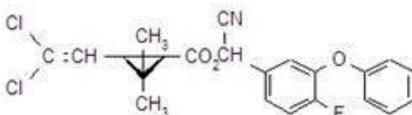
Chemical Type (Organophosphate, Carbamate, Pyridil, etc): Pyrethroid

Formulation (WP, EC, FG, DP, GB, etc)/Concentration (g/l, g/kg): Cyfluthrin 10% WP

Molecular weight: 434.3

Molecular formula: C₂₂H₁₈C₁₂FNO₃

Structural formula:



Use Category (Insecticide, Herbicide, Fungicide, others.): Insecticide

Mode of action (Contact, Stomach, Systemic, etc.): Non systemic with stomach and contact action. Acts on the nervous system, with rapid knockdown and long residual activity.

CAS Number: 68359-37-5

Classification by Hazard (WHO Classification): W.H.O II

COMPANY DETAILS

Company name: **Hextar Chemicals Sdn. Bhd**

Company Address: Lot 5, Jalan Perigi Nenas 7/3, Fasa 1A, Pulau Indah Industrial Park, 42920 Pelabuhan Klang, Selangor Darul Ehsan, Malaysia

Contact: Mr. Andrew

Telephone: 603-3101 3333

Fax: 603-3101 3230

E-mail: andrew.tang@hextar.com

Website: www.hextar.com

SECTION 2 – COMPOSITION

Ingredients	CAS No.	Content %
Cyfluthrin	68359-37-5	10
Inert ingredients	-	90
Total		100%



SECTION 3 – PHYSICAL & CHEMICAL PROPERTIES

1. **Appearance/Form:** Powder
2. **Odour:** Odourless
3. **Colour:** Yellowish
4. **PH:** 5.0 – 7.0 (1% suspension in water)
5. **Melting Point:** 60° C
6. **Flash Point:** NA
7. **Density:** NA
8. **Water solubility:** Dispersible

SECTION 4 – HAZARD IDENTIFICATION

Potential health effects & symptoms

Eyes: May cause eye irritation

Skin: May cause skin irritation

Ingestion: Harmful if swallowed

Inhalation: Harmful if inhaled

SECTION 5 – FIRST AID MEASURES

Eyes: Immediately rinse eyes with a large amount of water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Get medical attention

Skin: Remove contaminated clothing. Wash with plenty of soap and water, including hair and under fingernails. Get medical attention.

Ingestion: If the victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Note to physician: Treatment is symptomatic

SECTION 6 – FIRE FIGHTING MEASURES

Flammability: Non-flammable

Extinguishing media: water, carbon dioxide, dry chemical, foam

Fire fighting protective equipment: Fire fighters should wear self-contained breathing apparatus and full protective clothing

Special hazards: Thermal decomposition or combustion may release irritating and possible toxic gases.

SECTION 7 – ACCIDENTAL RELEASE MEASURES

Spill / Leaks

Isolate the area and keep unauthorized people away. Do not walk through spilled material. Avoid breathing dusts and skin contact. Use recommended protective equipment while carefully sweeping up spilled material. Place in a covered container for reuse or disposal. Prevent the material from entering sewers, waterways or low areas.

SECTION 8 – HANDLING & STORAGE

Handling precaution

Avoid all contact by mouth, skin and eyes. Avoid breathing vapours or mist. Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is potential for exposure to the chemicals. Wash face and hands before eating, drinking or smoking. Do not contaminate water, food and feeds. Do not spray equipment contaminated with this product for any other purpose unless thoroughly cleaned with suitable cleaner.

Storage precaution

Keep out of reach of children, store in a well-ventilated place. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Store product in original container only. Do not contaminate water, other pesticides, fertilizers, food or feed in storage. Store in a cool dry place.

SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

Maintain exposure levels below exposure limits through the use of general and local exhaust ventilation.

Personal Protective Equipment

Wear chemical protective goggles or a face shield to avoid eye contact. Wear chemical-resistant gloves, socks and footwear to avoid skin contact. Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. Wear air purifying respirator based on the airborne concentrations.

SECTION 10 – STABILITY & REACTIVITY

Chemical stability: stable under normal storage conditions

Conditions to avoid: direct sunlight, excessive heat and open flames

Hazardous decomposition products: thermal decomposition may release carbon monoxide, phosphorus pentoxide and sulphur dioxide

Hazardous polymerization: will not occur

Compatibilities with other chemicals: incompatible with iron, strong oxidizers and bases



SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD₅₀ rats 500 mg/kg

Acute Dermal Toxicity: LD₅₀ rats > 5000 mg/kg

Acute Inhalation Toxicity: LC₅₀ rats (4 h) > 0.5 mg/L air

Skin Irritation: Mild irritating (rabbits)

Eye Irritation: Non-irritating (rabbits)

SECTION 12 – ECOLOGICAL INFORMATION

Fish : LC₅₀ (96h) for rainbow trout 0.0006-0.0029 mg/L

: LC₅₀ (96h) for carp 0.022 mg/l

: LC₅₀ (96h) for sunfish 0.0015 mg/l

: LC₅₀ (golden orfe) 0.0032 mg/l

Birds : LD₅₀ for bobwhite quail >2000 mg/kg

Bees : Toxic to honeybees

Worms : LC₅₀ for Eisenia foetida >1000 mg/kg dry soil

SECTION 13 – DISPOSAL CONSIDERATIONS

Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Do not reuse product containers. Dispose of product containers, waste containers and residues in a sanitary landfill, by incineration or by other procedures should be done according to local, state health and environmental regulations.

SECTION 14 – TRANSPORT INFORMATION

NIOSH/OSHA: Not established

Stable under normal use and storage conditions

This product does not constitute a hazardous substance in national/international road, rail, sea and air transport. During transportation, they should be stored away from foodstuffs and other materials for human and animal consumption. Do not empty containers for storage of foodstuffs and animal feed. In case of accident, call a doctor immediately.



SECTION 15 – REGULATORY INFORMATION

EEC: Information on the label

Safety advice: avoid release to the environment. Please refer to special instruction/safety data sheet

SECTION 16 – OTHER INFORMATION

Manufacturer Disclaimer

The information contained herein is, to the best of the knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product

MARCH 2015