

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Barclay Cypersect XL .
Chemical Name: Cypermethrin [ISO-E, BSI, ANSI,](Cyclopanecarboxylate) (IUPAC).
Synonyms: Cypermethrin (ISO-F).
Group Name: Pyrethoid.
Formula: C₂₂H₁₉ Cl₂ NO₃
Approved Use: Agricultural/Horticultural insecticide
Supplier: Barclay Chemicals Manufacturing Ltd.,
 Damastown Way
 Damastown Industrial Park
 Mulhuddart
 Dublin 15
Telephone No: 01 – 811 2900
Fax No: 01 – 822 4678
Issued By: Barclay Chemicals Ltd.

EMERGENCY TELEPHONE NUMBER: 00-353-1-8112900 (9am to 5pm)
00-353-863857769 (5pm to 9am)

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	Cypermethrin
2.	Hydrocarbon solvents
3.	Water

No.	CAS No.	R Phrases	Concentration	Classification
1.	52315-07-8	R20/21/22, R36, R43, R51/53	100g/l	Xn; N
2.	-	-	-	-
3.	-	-	-	-

Legend: Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive, O = Oxidising, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

3. HAZARDS IDENTIFICATION

Human: Irritating to eyes and skin, flammable
Environment: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Dangerous to bees

4. FIRST-AID MEASURES

General:	Always seek medical advice in cases of serious personal contamination. Take off contaminated clothing and shoes immediately. Remove to fresh air.
Inhalation:	Move to fresh air. In the case of inhalation of aerosol/mist consult a physician if necessary.
Skin Contact:	Wash with plenty of water, seek medical help if irritation persists.
Eye Contact:	Flush eyes for 15 minutes. Seek medical help if irritation persists.
Ingestion:	If swallowed seek medical advice immediately.
Medical Information:	No specific anti-dote known. Treat symptomatically. For specialist advice doctors should contact the nearest Poisons Information Centre .

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use either foam, water spray or a dry chemical. Keep containers cool by spraying with plenty of water. Extinguish source of fire, preferably with water.
Unsuitable Extinguishing Media:	Do not use a waterjet.
Special Exposure Hazards:	Fire may cause toxic fumes to evolve.
Protective Equipment:	Wear breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Suitable clothing, goggles or glasses with side-shields, gloves.
Environmental Precautions:	Contain spillage as the situation allows, particularly to prevent contamination of water. Advise police of any spillage escapes. Do not flush with water.
Methods for Cleaning Up:	Absorb with pumice, vermiculite, sand or earth. Collect contaminated material and surrounding soil and place in covered, labelled containers for disposal.

7. HANDLING AND STORAGE

Handling:	Full personal protection and goggles giving complete protection of the eyes and respirator may be required. When using do not eat, drink or smoke. Wear nitrile-rubber gloves and a faceshield when handling the concentrate. When using do not eat, drink or smoke. Avoid all contact with mouth. Do not breathe spray.
Storage:	Store in original container, tightly closed and in a safe place. Keep out of reach of children. Keep away from food, drink and animal feedstuffs. Keep at temperatures above 5°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautions:	Wear suitable protective gloves and face protection when handling concentrate. Wash all protective clothing thoroughly after use, especially insides of gloves. When using do not eat, drink or smoke. Wash splashes from skin or eyes immediately Do not breathe spray. Keep away from animal feedstuffs. Wash hands before meals and immediately after work Keep out of reach of children
Protective Clothing:	Respiratory Protection: Standard face-shield should be used when dealing with the concentrate or spray. Eye Protection: Face-shield should be used when dealing with the concentrate or spray. Hand Protection: Nitrile rubber gloves should be used when dealing with the concentrate or spray. Skin Protection: Complete suit protecting against chemicals or overalls should be used when dealing with the concentrate or spray.
Occupational Exposure Limits:	None assigned.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown clear liquid concentrate.
Odour:	Aromatic
pH:	No information
Boiling Point/Boiling Range:	No information
Melting Point/Melting Range:	Not applicable
Flash Point:	not less than 38°C
Flammability:	Flammable
Autoflammability:	No information
Explosive Properties:	No information
Oxidizing Properties:	No information
Vapour Pressure:	No information
Relative Density:	0.90 g/ml
Solubility (water and fat):	Water soluble.

10. STABILITY AND REACTIVITY

Conditions to Avoid:	Product is flammable and flashpoint in the range 21°C to 55 °C. Volatile vapour may be produced. Vapours are invisible and are heavier than air and spread along the ground. Explosives mixtures with air may be formed especially in confined spaces.
Materials to Avoid:	None known
Hazardous Decomposition Products:	Vapour may be irritating to eyes, skin and respiratory system. Heating will cause an increase in pressure with risk of explosion

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Acute oral toxicity: LD ₅₀ (RAT) > 250 – 4150 mg/kg Acute dermal toxicity: LD ₅₀ (RABBIT) > 4000 mg/kg
Irritation:	Slight skin and eye irritant (rabbits)
Sensitization:	It is a moderate skin sensitiser.

12. ECOLOGICAL INFORMATION

Mobility:	In river water, DT ₅₀ c. 5 days.
Degradability:	In soil hydrolysis with cleavage of the ester bond occurs within c. 16 weeks. Further hydrolytic and oxidative degradation occurs.
Accumulation:	No information.

13. DISPOSAL CONSIDERATIONS

Product and Waste:	Dispose of product/contaminated waste via an approved disposal contractor.
Containers:	Crush or bury containers, or dispose of via an authorised disposal contractor.

14. TRANSPORT INFORMATION

1 Litre

Special Transport Precautions:	UN 1993, Marine Pollutant.
Road/Rail Classification:	--
IMDG Classification:	Dangerous Goods in Limited Quantities of Class 3.3. Marine Pollutant.
Air Classification:	--

15. REGULATORY INFORMATION

Contains Cypermethrin 100 g/l

R- PHRASES

- R10** - Flammable.
 - R36/38** - Irritating to eyes and skin.
 - R51/53** - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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S- PHRASES

- S 2** - Keep out of reach of children.
 - S20/21** - When using do not eat, drink or smoke.
 - S26** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S37/39** - Wear suitable gloves and eye/face protection.
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16. OTHER INFORMATION

Revision 0	Revision Date: 07.05.96	
Revision 1	Revision Date: 10.04.97	
Revision 2	Revision Date: 09.11.98	
Revision 3	Revision Date: 10.09.00	
Revision 4	Revision Date: 24.06.02	
Revision 5	Revision Date: 05.05.04	Update to comply with 2001/58/EC, change tel. no.
Revision 6	Revision Date: 26.07.04	Supplier details correction
Revision 7	Revision Date: 02.04.07	Emergency phone number updated

The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.

This Material Safety Data Sheet was prepared according to Directive 2001/58/EC.