



# Safety Data Sheet

SDS No.:  
SDS-P/EC-A/01

ACM Cyberthrin 5.5

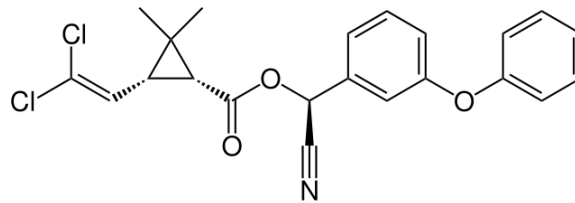
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## Section 1: Identification of the Hazardous Chemical and of the Supplier

### 1.1 Product Identifier

Product Name: Cypermethrin 5.5% EC  
Trade Name: ACM Cyberthrin 5.5  
Active Ingredient: [Cyano-(3-phenoxyphenyl)methyl]3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane-1-carboxylate  
CAS No.(AI): 52315-07-8  
Structural Formula:



Recommended Usage: Insecticide

### 1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.  
962, Lorong Perusahaan 8  
Taman Perindustrian Perai  
13600 Perai , Pulau Pinang  
Malaysia  
Tel.: +6-04-3907988  
Fax: +6-04-3905703  
Web: [www.agrichem.com.my](http://www.agrichem.com.my)  
Emergency Phone: +6-04-3907988

## Section 2: Hazard Identification

Classification: Flammable liquid category 3  
Acute toxicity, inhalation category 3  
Acute toxicity, dermal category 4  
Skin irritation category 2  
Eye irritation category 2  
Carcinogenic category 2  
Aspiration hazard category 1  
Specific target organ toxicity – single exposure category 3  
Acute aquatic toxicity category 1  
Chronic aquatic toxicity category 1

Pictogram:





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Signal Word: Danger

Hazard Statement:

H226	Flammable liquid and vapour
H331	Toxic if inhaled
H312	Harmful if in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H304	May be fatal if swallowed and enters airways.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statement:

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P233	Keep container tightly closed.
P271	Use only outdoors or in a well ventilated area.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P273	Avoid release to the environment.

## Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight, %	Hazard Code
Cypermethrin	52315-07-8	5.5%	H301, H312, H331, H315, H319, H400, H410
Blend of surfactant	-	<10%	H351
Xylene	1330-20-7	Balance	H226, H312, H332, H315, H319, H304

## Section 4: First-aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.



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Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion:	DO NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
Symptoms:	No data available.
Notes to Physician:	No data available.

## Section 5: Fire-fighting Measures

Suitable Extinguishing Media:	Carbon dioxide (CO <sub>2</sub> ), chemical foam, dry chemical, aqueous film forming foam
Specific Hazard During Fire:	Combustion gives rise to HCN. Thermal decomposition evolves NO <sub>x</sub> , HCN. Photochemical decomposition of active ingredient has been observed in laboratory studies.
Special Protective Equipment:	Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

Personal Precautions:	Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Environmental Precautions:	Very toxic to aquatic life with long lasting effects. Avoid release to the environment.
Method for Cleaning Up:	Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water resources.

## Section 7: Handling and Storage

Precautions for Safe Handling:	Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapours. Do not eat, drink or smoke when using this product. Avoid release to the environment.
Conditions for Safe Storage:	Store in a well ventilated place. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Keep container tightly closed.
Incompatibles:	Incompatible with acids and alkalines.



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## Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
	Cypermethrin Technical	52315-07-8	Not established	
ACGIH	Xylene	1330-20-7	TWA	100ppm (434mg/m <sup>3</sup> )
			STEL	150ppm (651mg/m <sup>3</sup> )

Engineering Control: Local exhaust ventilation

Individual Protection Measure: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe vapours.

Personal Protective Equipment:

Eye Protection: Protective goggles

Skin Protection: Plastic or synthetic gloves and boots

Respiratory Protection: Respirator

## Section 9: Physical and Chemical Properties

Appearance: Amber liquid

Odour: Characteristic odour

Odour Threshold: No data

pH: 4 – 8 (10% Emulsion)

Melting/Freezing Point: No data

Initial Boiling Point: No data

Boiling Range: No data

Flash Point: 26°C

Evaporation Rate: No data

Flammability: Flammable liquid

Upper Flammability Limit: No data

Lower Flammability Limit: No data

Vapour Pressure:  $1.09 \times 10^{-7}$  Pa (active ingredient)

Vapour Density: No data

Relative Density: 0.89

Solubility in Water: Miscible with water

Partition Coefficient  $P_{o/w}$ : No data

Auto-ignition Temperature: No data

Decomposition Temperature: Decompose at > 220°C (active ingredient)

Viscosity: No data



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## Section 10: Stability and Reactivity

Reactivity:	Combustion gives rise to HCN. Thermal decomposition evolves NO <sub>x</sub> , HCN. Photochemical decomposition of active ingredient has been observed in laboratory studies.
Chemical Stability:	The material is stable under normal storage condition
Hazardous Reaction:	No data
Condition to Avoid:	Direct sunlight, heat ad extreme temperature
Incompatible Material:	Incompatible with acids and alkalines
Hazardous Decomposition Product:	NO <sub>x</sub> , HCN

## Section 11: Toxicological Information

### 11.1 Acute Toxicity

Component: Cypermethrin		
Ingestion, Oral LD <sub>50</sub> :		
	Rat (female)	150-500mg/kg
	Rat (male)	187-326mg/kg
Skin Contact, Dermal LD <sub>50</sub> :		
	Rat	1600mg/kg
Inhalation, LC <sub>50</sub> :		
	Rat	2.5mg/L air (4 hours)
Component: Xylene		
	Ingestion, Oral LD <sub>50</sub> :	> 2000-≤5000mg/kg
	Skin Contact, Dermal LD <sub>50</sub> :	> 1000-≤2000mg/kg
	Inhalation, LC <sub>50</sub> :	>10.0-≤20.0mg/L

### 11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	Causes skin irritation
Eye Contact:	Causes serious eye irritation
Inhalation:	May cause respiratory irritation and may be fatal if enters airways
Ingestion:	May be fatal if swallowed
Carcinogenicity:	Suspected of causing cancer
Mutagenicity:	No data available
Teratogenicity:	No data available

11.3 Symptoms No data available.

## Section 12: Ecological Information

### Ecotoxicity:

Component: Cypermethrin Technical		
Acute Toxicity LC <sub>50</sub> :		
	Rainbow trout, 96hr	0.005mg/L



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	Carp, 96hr	3.63mg/L
	Daphnia magna EC <sub>50</sub> , 48 hr	0.66µg/L
	Bee (Topical), LD <sub>50</sub>	0.17µg/bee
Component: Xylene		
Acute Aquatic Toxicity LL/EL/IL <sub>50</sub> :		
	Fish	> 1 - ≤10mg/L
	Aquatic crustacea	> 1 - ≤10mg/L
	Algae/aquatic plants	> 1 - ≤10mg/L
	Microorganisms	> 100mg/L
Chronic Toxicity, NOEC/NOEL		
	Fish, 56 days	> 1mg/L
	Aquatic crustacea, 21 days	> 1mg/L

Persistence and Degradability: No data available  
Bioaccumulative Potential: No data available  
Mobility in Soil: No data available  
Other Adverse Effect: No data available

## Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam / authorized body by DOE.

## Section 14: Transportation Information

Land (ADR/RID)	
Proper Shipping Name	Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C
Hazard Class	6.1
Hazchem Code	-
UN number	2903
Packing Group	III
Label/Mark	6(3)
Sea (IMDG)	
Proper Shipping Name	Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C
Hazard Class	6.1
UN Number	2903
Packing Group	III
Marine Pollutant	-
Label	6(3)
Transport Document Name	-



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## Air (IATA)

Proper Shipping Name	Pesticide, Liquid, Toxic, Flammable, N.O.S. flashpoint not less than 23°C
Hazard Class	6.1
UN number	2903
Packing Group	III
Label/Mark	6(3)
Transport Document Name	-

## Section 15: Regulatory Information

Classification: Flammable liquid category 3  
Acute toxicity, inhalation category 3  
Acute toxicity, dermal category 4  
Skin irritation category 2  
Eye irritation category 2  
Carcinogenic category 2  
Aspiration hazard category 1  
Specific target organ toxicity – single exposure category 3  
Acute aquatic toxicity category 1  
Chronic aquatic toxicity category 1

Signal Word: Danger

Pictogram:



Pesticides Act: Class III  
Classification: Harmful

## Section 16: Other Information

Date of Preparation: 7 October 2015  
Date of Revision: -  
Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014  
GHS Purple Book  
MSDS

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.