



INDIA

Conscious Care.

MSDS Latest updating 21/03/2008

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Name: **AMPLAT**

Use: EC insecticide for public health use

Public Health Product – Ministry of Health Reg. No. 14306

Company identification: I.N.D.I.A. INDUSTRIE CHIMICHE S.p.A.

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2. HAZARD IDENTIFICATION

Classification: Harmful. May cause lung damage if swallowed. Very toxic to aquatic organisms

Main chemical and physical hazards: Not envisaged

Adverse effects:

- for health: The product may be irritating to eyes, skin and the first respiratory tracts. Ingestion may be dangerous because small amounts of solvent may reach the respiratory tracts and cause pneumonia or lung oedema. Pyrethroids are not highly toxic to people but the ingestion of large amounts of product may affect the Central Nervous System. Paresthesia, hyper-excitability, tremors may appear following the blockage of nervous transmission caused by pyrethroids. The inhalation of the product may cause drowsiness, headache and dizziness.

- for the environment: The concentrated product is toxic to the aquatic environment but the product diluted at recommended rates is far less dangerous

Other hazards:

3. INFORMATION ON INGREDIENTS

Substance	%	EINECSNO.	CASNO.	SYMBOLS	RPHRASES
Cypermethrin 93%(cis/trans 40/60)	5	2578429	5235-07-8	Xn,N	20/22-37-50/53
Tetramethrin 92%	25	2347116	7696-12-0	N	50/53
Epoxonyl Butoxide 88%	125	2000767	51036	N	50/53
Emulsifiers	11		Xi	41	
Petroleum naphtha	69	2651985	64742-94-5	Xn	65

4. FIRST-AID MEASURES

After inhalation: Remove patient to fresh air. If patient feels unwell consult a physician

Contact with skin: Flush skin immediately and thoroughly with soap and water. If irritation persists apply an antihistaminic lotion or vitamin E. Consult a physician.

Contact with eyes: Flush immediately and thoroughly with water for at least 15 minutes. Consult a physician

After ingestion: Do not induce vomiting and do not administer liquids. Consult a physician. No antidotes exist for intoxication by pyrethroids. A symptomatic treatment is required.

Specific first-aid means to be available on workplace: Antihistaminic lotion

5. FIRE-FIGHTING MEASURES

Suitable fire-fighting means: Carbon dioxide or dust extinguisher

Forbidden fire-fighting means: water

Special exposure risks: In a fire toxic fumes containing nitrogen oxides, hydrocyanic acid and carbon monoxide may be released

Special protective devices: Suitable outfit

6. ACCIDENTAL RELEASE MEASURES

Precautions for people: Avoid contact with eyes and skin. Block the access to contaminated areas. Do not stand against the wind.

Removal of ignition sources: Do not smoke

Respiratory protection: Protective mask

Dust control: Not applicable

Prevention of contact with eyes and skin: Wear gloves and safety goggles

Environmental precautions: Keep away from drains, surface and underground waters. Avoid contamination of foodstuffs

Methods of cleaning up: Absorb onto either sand, fossil flour or other inert material. Collect the contaminated inert material into tight containers and dispose of according to indications given at section 13.

7. HANDLING AND STORAGE

Handling: Wear suitable protective gloves and safety goggles. Do not inhale the product.

Storage: Store the product in aired premises, away from heat sources, flames and sparks, equipped with liquid-collection tanks

Particular uses:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure threshold values:

ACGIH:

TLV-TWA: 100 mg/m³ (naphtha)a

active ingredients: not available

TLV-STEL:

Critical effects: Lungs, central nervous system

Control procedures:

Exposure control

Professional exposure control

Respiratory Protection: Mask

Hand protection: Gloves

Eye protection: Goggles

Skin protection: Not applicable

Environmental exposure control: Use the product according to sound working practices. Follow the instructions given on the product label. Do not leave product residues and empty containers in the environment.

Dispose according to instructions given in section 13.

9. CHEMICAL AND PHYSICAL PROPERTIES

General information:

Physical state: Liquid

Colour : yellow

Odour: aromatic

Important information for human health, safety and the environment

pH: Not available

Boiling point: > 150°C

Flash point: >62°C

Flammability: Non flammable

Explosive properties: Not available

Combustive properties: Not available

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Vapour pressure: Not available
 Comparative density: 0.93 g/ml
 Solubility: Emulsifiable
 Octanol/water partition coefficient: Log_{kow} 3.8-4.8 (solvent)
 Viscosity: 5.28 cps
 Evaporation time: Not available
 other information:

10. STABILITY AND REACTIVITY:

Conditions to avoid: Stable under normal conditions. Keep away from direct sunlight
 Materials to avoid: Plastics, oxidising substances
 Dangerous decomposition products: Not available

11. TOXICOLOGICAL INFORMATION

Health-hazardous effects:
 Target organs: See section 3
 Symptoms: See section 3
 Toxicity of the formulated product LD₅₀ acute oral rat: 2780 mg/kg (calculated)
 Toxicity of active ingredients

	LD ₅₀ acute oral rat	LD ₅₀ acute dermal	Inhalation toxicity LC ₅₀ (4h)
Cypermethrin	250-4150 mg/kg	>4920 mg/kg	>2.5 mg/l
Tetramethrin	>5000 mg/kg	>5000 mg/kg	2.73 mg/l
Piperonyl Butoxide	>7500 mg/kg	>7950 mg/kg	>5.9 mg/l/
Naphtha	>5000 mg/kg	>3000 mg/kg	>12 mg/l

Contact with eyes and skin: Irritating. May cause serious eye damage
 Immediate, delayed and chronic effects resulting from short and long-term exposure:
 Sensitisation: May cause sensitisation
 Carcinogenicity: Available data show no specific hazards
 Mutagenicity: Available data show no specific hazards
 Toxicity on reproduction: Available data show no specific hazards

12. ECOLOGICAL INFORMATION

Ecotoxicity: The product is toxic to aquatic organisms
 Mobility: The a.i. are immobile in soil. In water they link to suspended particles. The solvent evaporates quickly
 Persistence and degradability: Cypermethrin is rapidly degrade in water by UV rays. Tetramethrin has a very long half-life (2 years). The solvent is biodegradable
 Bioaccumulation potential: Cypermethrin: BCF 420
 Tetramethrin: BCF 20
 Piperonyl But: BCF 90
 other adverse effects:

	Aquatic toxicity	Other ecotoxicity	Bee toxicity
Cypermethrin	(96 h) 0.0020 mg/l (brown trout)	Wild duck >10000 mg/kg	Highly toxic
Tetramethrin	(96 h) 0.069 mg/l (perchis)	Wild duck >1000 mg/kg	Toxic
Piperonyl But.	(24 h) 5.3 mg/l (carp)	Starling >100 mg/kg	

13. DISPOSAL CONSIDERATIONS

Handling of product in excess and of waste: See sections 7 and 8

Suitable disposal methods (product): Dispose of as toxic waste
 Suitable disposal methods (empty containers): Dispose of as toxic waste

14. TRANSPORT INFORMATION

UN no.: 3082
 Packing group: III
 Technical name: Environmentally hazardous substance, liquid, n.o.s. (contains cypermethrin, tetramethrin and piperonyl butoxide)
 Transport classification:
 ADR/RID: Class 9
 IMO: Class 9
 IATA: Class 9

15. REGULATORY INFORMATION

Classification: Harmful
 Hazard symbol: Xn, N
 Risk phrases: R65 harmful: may cause lung damage if swallowed
 R41 Risk of serious damage to eyes
 R50/53 : very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 Safety phrases: S2 Keep out of the reach of children.
 S23 Do not breathe gas/fumes/vapour/spray .
 S51 Use only in well-ventilated areas.
 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
 S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
 S60 This material and its container must be disposed of as hazardous waste.
 S61 Avoid release to the environment. Refer to special instructions/safety data sheets
 Sale and usage restrictions: For professional use

16. OTHER INFORMATION

Integral text of R phrases: R20/22 Harmful by inhalation and if swallowed
 R37 Irritating to respiratory system
 R41 Risk of serious damage to eyes
 R65 Harmful: may cause lung damage if swallowed
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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 Bibliography: The Pesticide Manual
 HSDB Hazardous Substances Data Bank
 MSDS of raw materials