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| SECTION 1. Identification of the substance/mixture and of the company/undertaking |

**Product name :** Cypermethrin 2%+ Acetamiprid 2% EC

**Chemical formula :** Acetamiprid

C10H11ClN4

N-[(6-chloro-3-pyridyl) methyl]-N-cyano-N-methyl-acetamidine

(IUPAC)

Cypermethrin

α-cyano-3-phenoxybenxyl-3-(2, 2-dichlorovinyl)-2, 2-dimethyl

Cyclo propane Carboxylate

C22H19Cl2NO3

**Relevant identified uses :** Insecticide

**CAS No. :** 2921-88-2 & 52315-07-8

**Chemical Family :** Organophosphate

**Company :** Insecticides (India) Ltd

CH-21, GIDC industrial estate

Ta- Vagra, Dist- Bharuch

Gujarat (India)

**Phone number :** +912641286535

**Email id :** qcdiildahej@gmail.com

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| SECTION 2. Hazards identification |

**Toxicity Class :** WHO (a.i.) II; EPA (Formulation)

**Fire and explosion hazard :** Product is flammable due to the solvent.

**Likely routes of exposure :** Skin and eye contact, ingestion an inhalation.

**Skin :** Harmful, due to possible absorption. Irritating to skin. May

Cause sensitization by skin contact.

**Eyes :** May cause slight eye irritation.

**Inhalation :** Harmful by inhalation.

**Ingestion :** Harmful by ingestion.

**Other information :** Non Toxic in general.

**Environmental hazard :** Very toxic to aquatic organisms, may cause long-term adverse

Effects in the aquatic environment.

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| SECTION 3. Composition/information on ingredients |

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| **Chemical Name** | **Concentration**  **g/l** | **CAS No.** | **EC-No.** | **Index No.** | **REACH No.** | **Classification** |
| Acetamiprid | 20.00 | 135410-20-7 | ---- | --- | ------ | Xn; R10/22/38/41/43  N; |
| Cypermethrin | 20.00 | 52315-07-8 | 257-842-9 | --- | --- | Xn; R10/22/38  Xi; N; |
| Other ingredients | Up to one Liter | ------ | ---- | --- | --- | Xn |

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| SECTION 4. First aid measures |

**Skin contact :** If skin contact occurs, remove contaminated clothing and wash

affected areas thoroughly with soap and water. If poisoning

Occurs, give atropine tablets as above. Wash contaminated

Clothing before re-use.

**Eyes Contact :** If product gets in eyes, hold eyes open, flush with running water

for at least 15 minutes. If poisoning occurs give atropine tablets

as above.

**Inhalation :** Move affected person to fresh air and keep at rest until

recovered. If poisoning occurs give atropine tablets as above

**Ingestion :** If swallowed, do not induce vomiting. Give a glass of water. If

swallowed give one atropine tablet every five minutes until

dryness of the mouth occurs.

**Note to physician** : Treat as a cholinesterase inhibitor.

**Antidote** : Atropine sulphate is antidote.

**Medical advice :** call insecticides (India)limited at the emergency number shown

in this document , a poison control center or doctor

immediately for treatment advice.

Consider taking venous blood for determination of blood

Cholinesterase activity (use heparin tube).

Administer atropine sulfate, either by intramuscular or

intravenously, dependant on severity of poisoning .

**Other information :** Treat symptomatically and supportively as and when required.

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| SECTION 5. Fire-fighting measures |

**Suitable extinguishing**

**media** : Extinguishing media - small fires Use water spray,

alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires alcohol-resistant foam

**Extinguishing media**

**which must** **not be**

**used for safety reasons** : Do not use a solid water stream as it may scatter and

spread fire.

**Specific hazard**

**during fire fighting** : As the product contains combustible organic

components, fire will produce dense black smoke

containing hazardous products of combustion (see

section 10). Exposure to decomposition products may be

a hazard to health. Flash back possible over considerable

distance.

**Special protective**

**equipment for**

**firefighters**  : In the event of fire, wear self-contained breathing

apparatus.

**Flammable :** Keep fire exposed containers cool by spraying with water.

**Extinguishing media :** Preferred extinguishing media are Carbon Dioxide, dry

chemical, Foam,water Fog.

**Special exposure hazards :** Fire may involve dehydrated compounds, which may emit

oxides of carbon, nitrogen and possibly hydrogen chloride.

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| SECTION 6. Accidental release measures |

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**Personal Precautions :** Refer to protective measures listed in sections 7 and

8. Keep people away from and upwind of spill/leak. Beware

of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas. Remove all sources of

ignition. Pay attention to flashback.

**Environmental Precautions :** Do not allow entering drains or watercourses. When the

product

contaminates public waters, inform appropriate authorities

immediately in accordance with local regulations.

**Methods for cleaning up :** Contain and collect spillage with non-combustible absorbent

material, (e.g. sand, earth diatomaceous earth, vermiculite) and

place in container for disposal to local/national regulation

**Occupational spill :** For ***small dry spills***, sweep up with damp earth or sand or other

suitable absorbents, such as sawdust, taking care not to raise a

dust cloud. Place the material into a clean, dry container and

cover for subsequent disposal. In situations where product

comes in contact with water, contain contaminated water for

later disposal. Do not flush spilled material into drains.

For ***large spills*** contact the manufacturer. Contain liquid far

ahead of spill. Contain spillage and contaminated water and soil

for subsequent disposal. Do not flush spilled material into

drains.

Keep spectators away and upwind.

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| SECTION 7. Handling and storage |

**Handling :** Keep product in original tightly closed container. Remove

sources of naked flame or sparks. Avoid contact with eyes,

prolonged contact with skin, and inhalation of dust and vapor.

Use with adequate ventilation. Wash hands before eating,

drinking, chewing gum, smoking, or using the toilet.

Remove clothing immediately if the product gets inside.

Then wash skin thoroughly using a non-abrasive soap and put

on clean clothing. Do not apply directly to areas where surface

water is present, or to intertidal areas below the mean high

water mark. Water used to clean equipment must be disposed of

correctly to avoid contamination.

**Storage :** Check for hot containers and immediately remove to

open areas for disposal. Keep out of reach of unauthorized

persons, children and animals. Store in its original labeled

container in shaded, well-ventilated area, away from heat,

sparks and other sources of ignition. Not to be stored next to

foodstuffs and water supplies. Local regulations should be

complied with.

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| SECTION 8. Exposure controls/personal protection |

**Occupational exposure**

**limits :** No occupational limits are established.

**Engineering control**

**measures :** It is essential to provide adequate ventilation. The measures

appropriate for a particular work site depend on how this

material is used and on the extent of exposure. Ensure that

control systems are properly designed and maintained. Only

spark –resistant equipment should be used. Comply with

occupational safety, environmental, fire and other applicable

regulations.

**PERSONAL PROTECTIVE EQUIPMENT:**

**Respirator :** An approved full-face respirator suitable for protection from

dusts and mists of pesticides is required. Limitations of

respirator use specified by the approving agency and the

manufacturer must be observed. Comply with occupational

safety, environmental, fire, and other applicable regulations.

**Clothing :** Employee must wear appropriate protective (impervious)

clothing, boots and equipment to prevent repeated or prolonged

skin contact with this substance. Do not wear leather clothing.

**Gloves :** Employee must wear appropriate chemical resistant.

Protective gloves to prevent contact with this substance.

**Eye protection :** The use of safety goggles is recommended.

*Emergency eye wash:* Where there is any possibility that an

employee’s eyes may be exposed to this substance, the

employer should provide an eye wash fountain or appropriate

alternative within the immediate work area for emergency use.

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| SECTION 9. Physical and chemical properties |

**Physical state/Appearance** : liquid.

**Odor :** N/A

**Stability** : No thermal effect found between room temperature and 150 °C

Stable for two years in normal conditions.

**Compatibility** : Can compatible with many common pesticides

**Flammability :** flammable liquid

**Oxidizing properties :** N/A

**Vapour pressure :** N/A

**Solubility in water :** perfectly miscible with water .Give a stable emulsion.

**Density at 20°C :** 0.90-0.91 gm/cc

**Flash point :** >35 0C

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| SECTION 10. Stability and reactivity |

**Stability :** Stable under normal, dry storage conditions. Slowly

decomposed by heat and moisture.

**Conditions to avoid :** Avoid high temperatures(at or near flash point), open flames

Sparks and direct sunlight.

**Incompatibility :** Incompatible with oxidation materials and acids. The product is

compatible with many other pesticides when used at normal

rates. However, a compatibility test is required before using

with other products. Do not physically mix concentrate directly

with other herbicides or pesticide concentrates; always dilute

first.

**Hazardous decomposition :** Thermal decomposition products may emit oxides of carbon

and nitrogen. And possibly hydrogen chloride.

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| SECTION 11. Toxicological information |

**LD50 Acute Oral :** >800 mg/kg in rats (males)

**LD50 Acute Dermal** : >4000 mg/kg (rabbit)

**LC50 Acute Inhalation** : >5000 mg/m3 in rats

**Skin Irritation :**  mild irritation to skin

**Eye irritation** : Highly eye irritation

**Long term toxicity :** Did not show mutagenic or teratogenic effect in animal

Experiments.

In a rat inhalation study with naphthalene, tumers were

observed in the respiratory treat at all doses.

**Mutagenicity** : Results taken from animal studies suggest that the product is

not mugenic.

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| SECTION 12. Ecological information |

**Ecotoxicity Effects:-**

**Toxicity to fish :** LC50 For rainbow trout(Oncorhynchus mykiss) is 0.0075 mg/l.

Very toxic to aquatic organisms

**Toxicity to aquatic :** LC50 Daphnia magna (water flea) **,**  ca. 0.00034mg/l

**Invertebrates**

**Toxicity to algae :** EC50 for green algae is1.1 mg/l

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| SECTION 13. Disposal considerations |

**Pesticide disposal :** Do not contaminate ponds, waterways or ditches with

chemical or used container. Do not dispose of waste into

sewer. Where possible recycling is preferred to disposal or

incineration. If recycling is not practicable, dispose of in

compliance with local regulations.

**Container disposal :** Empty remaining contents. Triple rinse containers. Empty

containers should be taken for local recycling or waste

disposal. Do not re-use empty containers.

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| SECTION 14. Transport information |

**UN number : 2903**

**UN class :** 6.1

**UN packaging group :** III

**Proper Shipping Name :** Pesticides, liquid, Toxic, flammable N.O.S.

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| SECTION 15. Regulatory information |

**Classification :** Toxic, Flammable, Dangerous for the environment

**Hazardous symbols :**

# https://upload.wikimedia.org/wikipedia/commons/thumb/3/39/Hazard_T.svg/2000px-Hazard_T.svg.pnghttps://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSjodlTqd1GWzBk6RvSUetotGCv9qO7k1Nwn4J-H5YFt5xy6ICljwhttp://lab-training.com/wp-content/uploads/2013/01/Difference-Brtween-Flammable-and-Inflammable-Flammable-versus-Inflammable.gif

F: Flammable

N: Dangerous for the environment.

**Risk phrases**:

**R 10** Flammable

**R 22** Harmful if swallowed

**R 38** Irritating to eyes and skin.

**R 41** Risk of serious damage to eyes.

**R 43** May cause sensitization by skin contact

**Safety phrases:**

**S 2**  Keep out of reach of children

**S 13** Keep away from food, drink and

animal feeding stuffs.

**S 20/21** When using do not eat, drink or

smoke.

**S 36/37/39** Wear suitable protective clothing,

gloves and eye/face protection.

**S 46** If swallowed, seek medical advice

immediately and show this

container or label.

**S 62** If swallowed, do not induce

vomiting: seek medical advice

immediately and show this

container or label.

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| SECTION 16. Other information |

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