



# CHEMET WETS & FLOWS P. LTD.

AN ISO 9001:2008; ISO 14001:2004; OHSAS 18001:2007 CERTIFIED COMPANY

G-12 Hemkoot Building, B/H LIC Office, Opp. B.M. Institute of Mental Health, Ashram Road, Ahmedabad-380009. Gujarat. INDIA.

Phone : 079-26586091, Fax : 079-26587111 Email : [info@chemetchemicals.com](mailto:info@chemetchemicals.com) Website : [www.chemet.in](http://www.chemet.in)

## PRODUCT SAFETY DATA SHEET OF ALPHACYPERMETHRIN 5 % WP

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	N-GINE
Technical Name	ALPHACYPERMETHRIN 5 % WP
Chemical Name Of	(S)-alpha cyano-3-phenoxy benzyl (112,31z)-(2,2-dischloroving1).dimethylecyclopropene carboxyl ate, and{10-alpha-cyano-3-phemoxy benzyl(is,3s)-3-(2.2 dischloroving1)cyclopropane carboxyl
Chemical Family	Insecticide.
Formula	$C_{22}H_{19}Cl_2NO_3$
Supplier	CHEMET WETS & FLOWS P. LTD Plot no. 129/c/2, GIDC Estate, Ankleshwer 393002 Tel: 91-2646 239490
Manufacturer	CHEMET WETS & FLOWS P. LTD Plot no. 129/c/2, GIDC Estate, Ankleshwer 393002 Tel: 91-2646 239490
Emergency Phone No.	02646-239490
Fax No	02646-220254
Environmental, Health and Safety Department	02646-239490 02646-220254
Email Id	chemetank@gmail.com

### 2. COMPOSITION INFORMATION OF INGREDIENTS

Ingredient	CAS No	Percentage
Alpha Cypermethrin WP	67375-30-8	5%

### 3. HAZARDS IDENTIFICATION SUMMARY

Emergency overview	White/ cream color solid.
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- ✓ May be harmful if swallowed, inhaled or absorbed through skin.
- ✓ Causes moderate eye irritation.
- ✓ Avoid breathing vapors.
- ✓ Avoid contact with eyes, skin or clothing.
- ✓ Keep out of reach of children

## Potential Health Hazards

<b>Skin</b>	Non irritant.
<b>Eyes</b>	Mild irritant.
<b>Inhalation</b>	May cause after heavy exposure. Hypersensitivity. Ataxia. Urinary incontinence.
<b>Ingestion</b>	May cause hypersensitivity, ataxia, and urinary incontinence.

## 4. FIRST AID MEASURES

### If Swallowed

Do not induce vomiting. Remove by gastric lavage and catharsis.

### If In Eyes

In Case of with eyes, rinse immediately with plenty of water and seek medical aid.

### If Inhaled

Remove the patient from the exposure area to fresh air immediately. If breathing has stopped perform the artificial respiration. Keep person warm and rest. Get medical attention immediately.

### If On Skin

After contact with skin, wash immediately with plenty of water and soap

### Antidote

Phenobarbital or biphenyl hydration or their mixture may be given. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

**Flash Point** Above 25°C

**Flash Point Method** Closed cup method

**Fire and Explosion Hazard** Slight Fire & Explosion Hazard

### Extinguishing Media

Dry chemical , carbon dioxide , halon and water spray or standard foam. For larger fires use water spray ,



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fog or standard foam.

## Fire Fighting Instructions

Move containers from fire if possible. Fight Fire from maximum distance. Stay away from storage tank ends. Extinguish only if flow can be stopped. Do not spill material with higher-pressure water streams. Dike fire control water for later disposal. Use agents suitable for type of surrounding fire.

## Fire Fighting Equipment

Self-contained breathing apparatus with full-face piece. Full fire fighting turnout gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Small Spills

Do not touch spilled Material. Stop leak if you can any risk spillage. Use water spray to reduce for small spill, take up with absorbent material

### Large Spill

For larger spills dike far ahead of spill for later disposal.

## 7. HANDLING AND STORAGE

### Normal Handling

Always wear recommended personal protective equipment. Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapor or mist. Open containers carefully to release possible internal pressure before completely removing closure.

### Storage Recommendations

Store in a cool, dry, well-ventilated area in a non-combustible structure. Keep containers closed and protect containers from physical damage. Keep away from other sources of ignition. Keep away from food, feed and drinking water.

## 8. EXPOSURE CONTROLS

### Engineering Controls

Local exhaust ventilation may be necessary to control any air contaminants to within their TLV (Threshold limit value) during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

## PERSONAL PROTECTON EQUIPEMENT

### Eye Protection

Employee must wear splash proof or dust resistant safety goggles to prevent eye contact with this



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subsume.

## Skin Protection

Employee must wear appropriate (impervious) clothing and equipment to prevent repeated skin contact with this substance. Employees must wear protected gloves to prevent contact with this substance,

## Respiratory Protection

Typical protective equipment Cartridge, Respirator with an organic vapors Cartridge, Gas mask with organic vapors canister. Air purifying Respirator with a full-face piece operated in a pressure mode, Self-contained Breathing Apparatus.

## Additional Recommendation

Safety showers and eyewash stations convenient to work area. Protective clothing, boots, face shield and hat, cleaned daily, if exposure to liquid (splashing etc.) is possible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Description** White/ cream colored solid.

**pH Range** 4 to 8

**Molecular Weight** 416.30 gm/mol.

**Molecular Formula**  $C_{22}H_{19}Cl_2NO_3$

**Boiling Point** 220°C at 9.3 Pa. 78

**Melting & Freezing Point** 78°C to 81°C

**Specific Gravity** at 25°C

**Vapor Pressure** 170 nap ( $1.7 \times 10^7$  N / m<sup>2</sup>)

**Solubility** Its wet table powder so easily mix with water.

For Technical : In water 0.01 mg/1(25°C). In acetone 620. Dichlorometh.sne 550. Cyclobexane 515. Ethyl acetate 440. Chloroform 420, Acctophenone 390. 0-xylene 350. Ilexane 7. (All in gilit at 25 °C). In maize oil 19-20 ethylene glycol <1, Both in Wks at 20°C.

**Flash Point** Above 25 °

## 10. STABILITY AND REACTIVITY

### Chemical Stability

Very stable in neutral and acidic media. Hydrolysis in strongly alkaline media. Thermally stable up to 220 °C.



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## 11. TOXICO LOGICAL INFORMATION.

### Acute Toxicity

Ld50for-Rat

Acute oral 533mg/kg

Acute Dermal ->2000 mg/kg

LD 50 for -Rat

acute Inhalation:0.395mg/kg ,

Acute eye irritation :Rabbit irritation /Acute skin irritation: Rabbit : Non irritant

### Medical Conditions Aggravated By Exposure

Symptoms of may be hypersensitivity, nervous instability. tremors, ataxia urinary inconsistent and convulsions result on ingestion or inhalation; contact eyes causes severe irritation to eye and itching, burning and tingling arc some symptoms upon contact with skin.

### Carcinogen Status

Non carcinogen

Mutagenic Data: Salmonella typipharium no mutagenic charges in vitro.

## 12. ECO LOGICAL INFORMATION

### Environmental Summary

Alpha cypermethrin is highly toxic for birds, bees and fishes

### Fish Toxicity

The acute oral toxicity  $LD_{50}$  of Alpha Cypermethrin to Quail and Mallard ducks was reported to be more than 10000 mg /kg body weight.

### Avian Toxicity

Alpha cypermethrin is highly toxic for birds.

### Bee Toxicity

The oral  $LD_{50}$  (24h) value of Alpha Cypermethrin to honey bee was reported to be 0.06 jig/bee whereas dermal  $LD_{50}$  (topical application) value of Alpha Cypennethrin was found to be 0.03pg/bee.

## 13. DISPOSAL CONSIDERATION

### Waste

Pesticide wastes are toxic. Dispose of in accordance with applicable Federal, state and local laws and regulations.

## 14. TRANSPORT INFORMATION

For additional information on shipping regulations affecting this material, contact the information number found in section I



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## 15. REGULATORY INFORMATION

None.

## 16. OTHER INFORMATION

None

## DISCLAIMER

All reasonable care has been exercised in processing your request for information on the chemical listed in this Material Safety Data Sheet. No warranty is made, either expressed or implied and Perisseuma Projects does not hold itself liable for any injury, illness, loss or misinterpretation arising from the use of this data. CHEMET WETS & FLOWS P.LTD makes no warranty expressed or implied in respect of the adequacy of this document for any particular purpose.

## PREPARED BY:

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