



# CHEMET CHEMICALS PVT. 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.chemetchemicals.com](http://www.chemetchemicals.com)

## MATERIAL SAFETY DATA SHEET OF TEMEPHOS 1% SG

### 1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name	NOLAR 1 SG
Technical Name	TEMEPHOS 1 % SG
Chemical name	Organ phosphorus
Use of substance/preparation	It is used as an insecticide for the control of Larvae of mosquitoes (Anopheles spp., Aides spp., and Culet spp.), midges, sand files, and flies and Samarium spp. In ponds, lakes, marches and swamps.
Supplier	CHEMET CHEMICALS P. LTD Plot No. 6230,6231, GIDC Estate ANKLESHWAR-393002 GUJARAT, INDIA
Manufacturer	CHEMET CHEMICALS P. LTD Plot No. 6230,6231, GIDC Estate ANKLESHWAR-393002 GUJARAT, INDIA
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 ON INGREDIENTS

Ingredient	CAS No	Percentage
Themephos SG	3383-96-8	1 %

### 3. HAZARD IDENTIFICATION

Ingestion	The concentrate is slightly toxic by ingestion. Acute oral toxicity is very low, LD50> 10,000 mg/Kg (Rat, female)
Eye	The granules may cause irritation.
Skin	Prolonged and repeated skin contact may cause



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irritation.

## Inhalation

Inhalation may cause respiratory irritation and chemical pneumonitis.

## Chronic Effects

Unknown

## 4. FIRST AID MEASURES

### Swallowing

If swallowed, vomiting should be induced if the person is conscious. In the event of collapse artificial respiration should be given. Consult a physician immediately.

### Skin

Wash affected area with plenty of soap and water. Remove contaminated clothing. Launder contaminated clothing separately. Get medical attention.

### Eyes

If in eyes, hold eyes open, flood with water for at least 15 minutes. Consult a physician.

### Inhalation

Remove victim to fresh air. If not breathing administer artificial respiration. Avoid unprotected mouth-to-mouth resuscitation. GET MEDICAL ATTENTION.

## 5. FIRE FIGHTING MEASURES

### Fire Fighting measures

Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces. Keep upwind.

### Extinguishing Media

Carbon dioxide (CO<sub>2</sub>), foam or dry chemical powder. Use water spray to cool exposed containers.

## 6. ACCIDENTAL RELEASE MEASURES

### Spill or Leak

Contain spill and absorb with sand or other inert absorbent and collect absorbent in a plastic lined metal drum for disposal. Prevent from entering drains, waterways and sewers. Liquid chlorine bleach may be used to decontaminate the spill area.

### Waste disposal method

Dispose of in accordance with local regulations.



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## Container disposal

Dispose of in an approved facility according to local regulations

## 7. HANDLING AND STORAGE

Not classified as a dangerous good for transport and storage. Store in the closed, original labeled container in a cool, dry well ventilated area out of direct sunlight. Keep in a safe place away from foodstuffs, seeds or fertilizers. Keep out of the reach of children. Wash thoroughly with soap and water after handling the material and before eating or drinking.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Standards

No exposure standards have been set for this product.

### Engineering Controls

When used in the field no special engineering controls required.

### Personnel Protection

The product will irritate the eyes and may irritate the skin. Avoid contact with eyes and skin. When preparing product for use wear elbow length PVC gloves and face shield or goggles. After use and before eating drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Temephos contents	9 - 12
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Appearance	Red free flowing granules
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Density	1.3 - 1.6 Kg/L
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Odour	Faint amine odor
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## 10. STABILITY AND REACTIVITY

### Reactivity

Avoid contact of the concentrate with strong alkalis and strong oxidizing agents.  
Avoid storage above 60°C

### Hazardous Decomposition Product

Carbon monoxide.



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Carbon dioxide.  
Oxides of Phosphorus  
Oxides of Sulfur.

## 11. TOXICOLOGICAL INFORMATION

### Larvae 10SG

LD50, Oral Rat > 10,000 mg/Kg

### Active Ingredient (Temephos)

#### Acute Mammalian Toxicity

LD50, Oral Rat (male) 4,204 mg/Kg  
LD50, Oral Rat (Female) > 10,000 mg/Kg  
LD50, precutaneous, Rat > 4,000 mg/Kg

#### Birds

Dietary LC50, (5 d) for mallard duck 1,200 mg/Kg diet.

#### Fish

LC50, for rainbow trout 31.8 mg/L.

#### Bees

LD50 Topical: 1.55 g/bee.  
It should be noted that Temephos may injure or kill young shrimp or crabs in treated tidal areas.

## 12. ECOLOGICAL INFORMATION

Test with various wildlife species indicate that the compound is highly toxic to some organisms and moderately toxic to other species. Temephos 10 SG shows a wide range of toxicity to aquatic organisms. The most sensitive species of Fish is the rainbow trout LD50 ranging From 0.16 to 3.49 mg/Kg It is highly toxic to bees.

## 13. DISPOSAL CONSIDERATION

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable local procedures. Emptied container retains vapors and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Do not reuse container. Triple rinse containers, then puncture and dispose of in a sanitary landfill or by incineration, or if allowed by local authorities, by burning. If burned, stay out of smoke.

## 14. TRANSPORT INFORMATION

Product not classified as a dangerous good for transport by road, rail, sea or air. It is a good practice to



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separate this product from food and animal feedstuffs, seeds or fertilizers during transport.

## 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 CHEMICALS PVT. 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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