



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

Add: Room1804, No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

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Website: www.bosmanagrochem.net

Version: 1.0 Issue date: June 10, 2024

MATERIAL SAFETY DATA SHEET OF TEMEPHOS 1% SG

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

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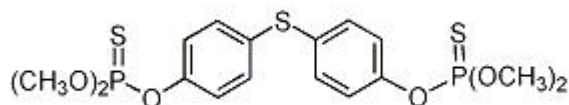
Product name: Temephos 1% SG

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Soluble Granule (SG)

Chemical Abstracts name: O,O' -(thiodi-4,1-phenylene) bis(O,O-dimethyl phosphorothioate)

Structural Formula:



Other ingredients determined not to be hazardous

CHEMICAL NAME	CAS NO	CONTENT
Temephos	3383-96-8	1% min
Others	Not available	Up to 100%

3. HAZARDS 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 Irritation.

Inhalation : Inhalation may cause respiratory irritation and chemical pneumonitis

Chronic Effects : Unknown

4. FIRST AID MEASURES

If Swallow Do not induce vomiting. Call a physician and/or transport to emergency center immediately.



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The decision of whether to induce vomiting or not should be made by a physician.

Skin: Wash affected area with plenty of soap and water. Remove contaminated clothing. Wash contaminated clothing separately. Seek 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.

Advice to Doctor: This material contains a cholinesterase inhibitor. Signs of poisoning may include: Dizziness, nausea, vomiting, intestinal spasms, diarrhoea, contracted pupils, difficulty in breathing and other non-specific effects. Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighted against toxicity when considering emptying the stomach. Supportive care. Treatment based on judgment of physician in response to symptoms of patient.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water spray, Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical

Unsuitable extinguishing media: None known.

Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Exposure to combustion products may be a hazard to health.

Hazardous combustion products: Carbon oxides, Sulphur oxides, Oxides of phosphorus, Metal oxides, Sulphur compounds

Advice for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

6. ACCIDENT 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



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and sewers. Liquid chlorine bleach may be used to decontaminate the spill area.

Waste disposal method

Dispose of in accordance with local regulations.

Container disposal

Dispose of in an approved facility according to local regulations

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with eyes and skin.

Storage: Store in original container in a cool, dry, well-ventilated area. Keep away from food, drink and animal feeds. Keep out of direct sunlight and avoid frosts.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards

No exposure standards have been set for this product.

Engineering Controls

Keep work place ventilated.

Personnel Protection

Eyes: Wear face shield.

Clothing: When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat.

Gloves: Elbow-length PVC gloves.

Respiratory: Respiratory protection is generally not required when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid granule

Odour: Characteristic

pH: NA

Bulk density: NA

Melting point: not available

Corrosive: non corrosive

10. STABILITY AND REACTIVITY



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Reactivity

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

Hazardous Decomposition Product

Carbon monoxide. Carbon dioxide. Oxides of Phosphorus. Oxides of Sulfur.

11. TOXICOLOGICAL INFORMATION

For Temephos Technical

Acute toxicity

Acute Oral toxicity: Acute oral LD50 for male rats 4204, female rats >10 000 mg/kg.

Acute Skin and eye toxicity: Acute percutaneous LD50 (24 h) for rabbits 2181, rats >4000 mg/kg.

Acute eye and skin irritation: Non-irritating to eyes and skin.

Acute Inhalation toxicity: LC50 (4 h) for rats 4.79 mg/l.

Chronic toxicity

NOEL (2 y) for rats 300 mg/kg diet.

Other

No toxic symptom felt by humans receiving 256 mg/man for 5 d, or 64 mg/man for 28 d

12. ECOLOGICAL INFORMATION

For Temephos Technical

Birds Dietary LC50 (5 d) for mallard ducks 1200, ring-necked pheasants 170 mg/kg diet.

Fish LC50 (96 h) for rainbow trout 9.6 mg/l; (24 h) for rainbow trout 31.8 mg/l.

Bees Highly toxic by direct contact; LD50 (topical) 1.55 µg/bee.

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 vapours and product residue. Observe all labelled 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



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14. TRANSPORT INFORMATION

UN Number: 3077

UN Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
(temephos)

Transport hazard class: 9

Packing group: III

15. REGULATORY INFORMATION

The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation. Keep out of the reach of children. Keep container tightly closed.

Keep away from sources of ignition- No Smoking.

16. OTHER INFORMATION

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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact this company.

END OF MSDS