



Pest Guy
Exterminating
Co.Ltd.

殲霸
SPAR 1% S.G.



MATERIAL
SAFETY DATA
SHEET

1. Product: SPAR 1% S.G.

2. Registration No: 2P179(SG). Agriculture, Fisheries and Conservation Department. Hong Kong.

3. Manufacturer

Asiatic Agricultural Industries Private Ltd.

4. Emergency Contact

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5. Identification of the substance

Common Name : Temephos
IUPAC Chemical Name : O,O'-thiodi-4, 1-phenylene O,O',O'-tetramethyl phosphorothioate
Empirical Formula : C₁₆H₂₀O₆P₂S₃
Molecular Mass : 466.50
CAS Number : 3383-96-8
Chemical Family : Organophosphorus Compound
Product Type : Larvicide

6. Composition / Information on ingredients

Formulation: Granule

Components	Content, w/w	CAS Number
Temephos	1%	3383-96-8
Inert Ingredient	99%	-

7. First Aid Measures

Symptoms and effects :
Over-exposed may cause local irritation of the skin and irritation of the respiratory tract.

Inhalation : Not harmful under normal conditions.
Skin : Remove contaminated clothing. Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.
Eye : Flush eyes with plenty of water. If persistent irritation occurs, obtain medical attention.
Ingestion : Remove by gastric lavage and catharsis. Maintain blood pressure and airway. Give oxygen if respiration is depressed. Do not perform gastric lavage to victim if unconscious. Obtain medical attention immediately.

Advice to Physician :
Treat symptomatically. Ingestion poses the major hazard.

Antidote :
Treat symptomatically. In moderately severe poisoning administer atropine sulphate 0.4-2.0mg repeated every 15 minutes until atropinization is achieved. In case of severe poisoning (expressed by respiratory desperation, muscle weakness and twitching) give paralboxime (protopam-ayerst, 2-PAM) 1.0g intravenously at no more than 0.5 g/min.

8. Fire-Fighting Measures

Flash Point (Close cup): Not applicable, granule.

Fire and Explosion Hazard: Non-flammable.

Suitable extinguishing media:

Use alcohol foam, carbon dioxide, dry chemical, soft stream water fog only if necessary. Contain all run-off.

Unsuitable extinguishing media:

Do not scatter spilled material with high pressure water stream.

Special exposure hazards in a fire:

Avoid breathing hazardous vapors, keep upwind.

Fire-Fighting Instructions:

Evacuate area and fight fire from a safe distance. Approach from upwind to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Foam fire extinguishing systems is preferred to prevent environmental damage from excessive water run-off. If water is used, avoid heavy hose streams. If possible, dike and collect water used to fight fire to minimize run-off.

Special Protective equip. for fire-fighting:

Wear a self-contained respiratory apparatus, wear full fire-fighting turn-out gear.

9. Accidental Release Measures

Personal Precautions: Avoid contact with skin and eyes. No smoking, flames or fires in hazard area. Keep unnecessary people away. Isolate hazard area and deny entry. Wear protective clothing and personal protective equipment as prescribed in Section 12.

Environmental Precautions: Do not release to the environment in large amount.

Method for Cleaning Up: Collect scattered material and add to the drums of waste already collected. Repeat if necessary. Dispose off drummed waste according to the method outlined in Section 19 "Disposal Considerations".

10. Hazards Identifications

Human Health Hazards:
Harmful if swallowed.

Environmental Hazards:
Harmful to aquatic organisms.

11. Handling and Storage

Handling – Special Protection Measures: When handling chemical do not eat, drink or smoke. Wash hands and exposed skin before meals and after work.

Storage – Sensibility to humidity, light & oxidation: Stable under normal atmospheric conditions when stored in close container.

Special storage requirements: All chemical must be kept out of reach of children, pets, live stock and people. Pesticide should be stored in a locked, secure place, such as a separate building or storage room.

Storage Conditions: Maintain a well ventilated storage area which is relatively free from temperature fluctuations.

Polymerization: Hazardous polymerization has not been reported to occur under normal temperature and pressure.

Shelf life: Will keep their physical & biological properties for minimum 2 years when stored in their original packing in a dry place at an annual average temperature not exceeding 25 deg C.

Recommended Packing Material: PE bags.

Packaging material to be avoided: None

12. Exposure Control / Personal Protection

Engineering Controls: Local exhaust ventilation may be necessary to control any air contamination to within their TLVs during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment-

Respiratory Protection: When handled in a non-ventilated area, use a respirator with an organic vapor removing cartridge with a prefilter approved for pesticides.

Hand Protection: Wear chemical resistant gloves such as nitrile, butyl rubber, barrier laminate or viton.

Eye Protection: Wear safety glasses or goggles.

Skin Protection: Wear long-sleeved coveralls worn over a minimum of short-sleeved shirt and short pants. Wear chemical resistant footwear plus socks.

Personal Hygiene: Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, using tobacco or using the toilet. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Shower at the end of the workday.



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13. Stability and Reactivity

Chemical stability : Stable under normal conditions.
 Conditions to avoid : None.
 Incompatibility with other material : Strong alkalis, amines and oxidizers.
 Hazardous decomposition : May emit toxic fumes on thermal decomposition.

14. Ecological Information

Environmental Summary : This pesticide is toxic to fish, birds, bees and other wildlife.
 Fish Toxicity : LC₅₀, trout 31.8 mg/L (technical)
 Avian Toxicity : LD₅₀, quail 25.2 mg/kg (technical)

15. Toxicological Information

Acute Toxicity –
 Oral LD₅₀ – rat : 4204 mg/kg (technical)
 Inhalation LC₅₀ – rat : > 4.79 mg/l (4hrs)
 Eye irritation-rabbit : Moderate irritant
 Skin irritation-rabbit : Moderate irritant
 Sensitization-guinea pig: Non-sensitizer
 Medical conditions : Pre-existing cholinesterase depression.
 aggravated by exposure
 Carcinogen status –
 OSHA : Not listed
 NTP : Not listed
 IARC : Not listed
 Additional data : Repeated or prolonged low level exposures may cause sensitization to subsequent exposures that mimic acute exposures.

16. Physical and Chemical Properties

Physical state : Solid
 Color : Gray
 Odor : None
 Boiling Point : Not applicable, granule.
 Melting Point : 30 deg C (technical)
 Special gravity : Not applicable, granule.
 pH : Not applicable, granule.
 Vapor Pressure : 2.5 x 10⁻⁶ pa @ 25 deg C (technical)

17. Transport Information

Road / rail transport –
 Class : 6
 Hazard symbol : Environmentally hazardous substances, solid, n.o.s.
 Proper shipping name : Temephos
 UN number : 2783
 Maritime transport –
 UN number : 2783
 Class : 6
 Packing group : III
 Hazard symbol : Environmentally hazardous substances, solid, n.o.s.
 Marine pollutant : Yes
 Proper shipping name : Temephos
 Air transport –
 Class : 6
 UN number : 2783
 Packing group : III
 Hazard symbol : Environmentally hazardous substances, solid, n.o.s.
 Proper shipping name : Temephos

18. Regulatory Information

Risk phrases –
 R22 : Harmful if swallowed.
 R52 : Harmful to aquatic organisms.
 Safety phrases –
 S2 : Keep out of the reach of children.
 S28 : After contact with skin, wash immediately with plenty of water.
 S36/37 : Wear suitable protective clothing and gloves.
 S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S61 : Avoid release to the environment. Refer to special instructions / safety data sheets.

19. Disposal Considerations

Waste : Pesticide waste are toxic and hazardous. Dispose off in accordance with local regulations. Do not discharge or pour into soil, drainage system or bodies of water.
 Container : Dispose off according to local regulations.

20. Other Information

Disclaimer:
 The information and data contained herein are believed to be correct. The recommendations and suggestions for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, express or implied, is made as to the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials. No statement is to be construed as violating any copyright or patent.
 Revised date: Not applicable.
 Revised For: New issue.