

BRIGHT RESOURCE TECHNOLOGY SDN. BHD.

(Co. No.: 517165-A)

No. 11-2, Jalan Meranti SD 13/4,

Bandar Sri Damansara,

52200 Kuala Lumpur, Malaysia

Tel.: 603-6272 1678 Fax: 603-6272 9528

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SAFETY DATA SHEET

TEMEPHOS 1.0 GR

CAS Number: 3383-96-8

Trade Name: LARVA BAIT 1.0 GR

Common Name: Temephos

Chemical Name: O,O,O',O'-tetramethyl O,O'-thiodi-p-phenylene bis (phosphorothioate)

1. Substance/ Preparation and company identification

Chemical Nature: Insecticide

Distributor: **Bright Resource Technology Sdn. Bhd.**

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2. COMPOSITION/ INFORMATION ON INGREDIENTS

S.No	Ingredient	Concentration (%) w/w
i.	Temephos	1.00
ii.	Other ingredients	99.00

3. HAZARDS IDENTIFICATION

Label elements and precautionary statement:

Pictogram:



Signal Word: Warning

Hazard Statement:

May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long last effects.

Precautionary Statements (Prevention): Do not breathe dust

Precautionary Statements (Response): Get medical advice/ container to hazardous or special waste collection point.

Precautionary Statements (Disposal): Dispose of contents/ container to hazardous or special waste collection point.

Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

4. FIRST AID MEASURES

General advice: Remove contaminated clothing.

Inhalation: Keep patient calm, remove to fresh air, and seek medical attention.

Skin contact: Wash thoroughly with soap and water.

Eye contact: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Ingestion: Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling. Further important symptoms and effect are so far not known.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE FIGHTING MEASURES

Flash Point: Non Flammable

Hazardous combustion products:

Decomposition may produce oxides of carbon, phosphorus and Sulphur.

Special Fire Fighting Procedures

Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream. Contains the run-off, if possible, for proper disposal.

Extinguishing Media: Dry chemical, foam and water spray or fog

Unusual Fire and Explosion Hazards: avoid breathing dusts, vapors and fumes from burning materials. Control run-off water. If water enters a drainage system, advise the authorities downstream.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Avoid contact with the spilled material or contaminated surfaces. Extinguish or remove all possible sources of ignition. When dealing with spills do not eat, drink or smoke and wear full body impervious clothing and equipment as described in Section 8. Keep people and animals away and upwind.

Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Thoroughly ventilate the area after cleanup. Deal with all spillages immediately.

CAUTION: KEEP SILLS AND CLEANING RUNOFF OUT OF MUNICIPAL SEWERS AND WATER RESERVOIRS.

7. HANDLING AND STORAGE

Handling

Keep out of reach of children. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. If product or spray in eyes, wash it out immediately with water. If product on skin, immediately wash area with soap and water. 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, goggles, respirator (if rubber, wash with detergent and warm water) and contaminated clothing.

Storage

Store in the closed, original container in a cool, well ventilated area. Keep away from all ignition sources. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers.

Personal Protective Equipment

Application and other handlers must wear: long sleeved shirt and long pants, chemical-resistant gloves. Barrier laminate, nitrile rubber and shoes. Follow manufacturer and instruction to cleaning and maintaining PPE.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Control process conditions to avoid contact. Use local exhaust ventilation during manufacture and spark proof equipment. Use in a well ventilated area only.

Respiratory Protection

In case of heavy exposure, wear: NIOSH approved organic vapor respirator in absence of mechanical ventilation.

Skin Protection

Wear Protective clothing: long sleeved shirts and pants, hat, shoes and chemical resistant PVC or nitrile gloves.

Eye Protection

Wear safety goggles with splash proof none perforated side shield or goggles.

Other

Wear PVC or chemical resistant disposable overalls and PVC boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Light brown or grey free following granules
Specific Gravity	: 1.40
Vapour Pressure	: 8×10^{-3} mPa (25 °C)- Temephos Tech.
Solubility in water	: Negligible
Explosivity	: Non-explosive
Oxidizing	: None
Auto Ignition	: None
Boiling Point	: Not available

10. STABILITY AND REACTIVITY

Stability:	Stable under normal temperature and pressures
Incompatibility:	Incompatible with alkaline and some oxidizing agents
Condition to avoid:	Storage above 60 °C
Hazardous decomposition Products:	Sulphurous oxides and CO, CO ₂ compounds
Hazardous polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION (Technical)

Acute LD50 Oral Rat	: > 4000 mg/kg
Acute LD50 Dermal Rabbit	: > 4000 mg/kg
Acute LC50 Inhalation	: LC50 (4 h) rat > 4.79 mg/L air- Tech
Skin irritation Rabbit	: None irritant (Tech)
Eye irritation rabbit	: None irritant (Tech)
Sensitization	: Not a skin sensitizer
Carcinogenicity	: None
Mutagenicity	: None
Reproductive Toxicity	: None
Toxicity class	: EPA (formulation) III
NOAEL (2 y rat)	: 300 mg/kg (Tech)

12. ECOLOGICAL INFORMATION (Technical)

Acute oral LD50 (Birds):	1200 mg/kg (mallard duck)
Dietary LC50 (ring necked pheasants):	170 mg/kg
Algae EC50:	NA
Daphnia toxicity: EC50 (48h):	0.88 µg/l
Bee toxicity:	Contact: Highly toxic by direct contact. LD50 1.5 µ/ bee
Acute LC50 (Fish) 96h:	9.6 mg/l rainbow trout
Degradation:	DT50 in soil for temephos 12d: for temephos sulfoxide <30 d. soil absorption Freundlich K 73 (loam sand), 130 (sandy loam), 244 (slit loam), 541 (loam)

13. DISPOSAL CONSIDERATION

Do not reuse product containers. Dispose of in sanitary landfill, or incineration or if allowed by state and local authorities, by burning. If burned, stay away out of smoke. Pesticide waste are toxic. Improper disposal of excess pesticides, spray mixture or rinse is a violation of law. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

UN No	: 2783
Class	: 6.1
Packing Instructions	: III
Marine Pollutant	: YES
Shipping Description	: Organophosphate pesticide, liquid, flammable and toxic

15. REGULATORY INFORMATION

Classification	Xn- Harmful; N- Dangerous to the environment
Risk Phrases	R10- Flammable R20/22 – Harmful by inhalation and if swallowed R51/53- Toxic to aquatic organism, may cause long term adverse effects in the aquatic environment
Safety Phrases	S2- keep out of the reach of children S13- Keep away from food, drink and animal feeding stuffs S36/37/39- Wear suitable protective clothing, gloves and eye/ face protection S46- If swallowed, seek medical advice immediately and show this container or label S56- Dispose of this material and its container to hazardous or special waste collection point

16. OTHER INFORMATION

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

Revised Date: January 2019