

SEKILAS KARISMA (M) SDN. BHD.

(Co. No.: 528804)

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

Bandar Sri Damansara,

52200 Kuala Lumpur, Malaysia

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

MATERIAL SAFETY DATA SHEET

TEMEPHOS 1.0 GR

CAS Number: 3383-96-8

Trade Name: Mosbait 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

Distributor: Sekilas Karisma (M) Sdn. Bhd.
No.11-2, Jalan Meranti SD 13/4,
Bandar Sri Damansara,
52200 Kuala Lumpur.
Tel: 02-6272 1678 Faks: 03-6272 9528

2. COMPOSITION/ INFORMATION ON INGREDIENTS

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

3. HAZARDS IDENTIFICATION

KEEP OUT OF REACH OF CHILDREN- CAUTION

Avoid breathing dust. Avoid contact with skin, wash thoroughly with soap and water after handling product.

4. FIRST AID MEASURES

Inhalation: Move the person to fresh air. If person is not breathing, give artificial respiration and call physician, immediately for further treatment.

Skin contact: Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes.

Eye contact: Rinse eyes immediately with clean water for at least 15 minutes and obtain urgent medical aid.

Ingestion: Wash out mouth with water. Give a large quantity of water. Keep patient at rest. DO NOT attempt to give anything by mouth to a semi-conscious or unconscious person and seek urgent medical advice.

Note to physician: Atropine is an antidote. In case of severe poisoning give pralidoxime. Antidotes should be administered by qualified medical personnel.

5. FIRE FIGHTING MEASURES

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

Flash Point (Test Method): Non-flammable

Unusual Fire an 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

In case of spill or leak

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 dust. 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

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, CO₂ compounds

Hazardous polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity/ irritation studies (Finished product)

Acute LD₅₀ Oral Rat : > 4000 mg/kg (Tech)

Acute LD₅₀ Dermal Rabbit : > 4000 mg/kg (Tech)

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)

Sensitisation : 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 (Based on Temephos 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 sulfxide <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 and feed by storage or disposal.

14. TRANSPORT INFORMATION

Hazard Class (N.O.S)	: 6.1
UN No	: 2783
Packing Instructions	: III
Marine Pollutant	: YES
Shipping Description	: Organophosphate pesticide, solid and toxic

15. REGULATORY INFORMATION

Classification	Xn- Harmful; N- Dangerous to the environment
Risk Phrases	R20/22 – Harmful by inhalation and if swallowed
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 Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS 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 MSDS 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 MSDS to their own MSDS.

Updated on 1st December 2017