

MATERIAL SAFETY DATA SHEET

Phenthoate Technical

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Phenthoate

Synonyms: O,O-Dimethyl S-(1-ethoxycarbonyl-1-phenyl) methylphosphorodithioate

Molecular Formula: $C_{12}H_{17}O_4PS_2$

Molecular Weight: 320.35766

COMPANY IDENTIFICATION

Manufacturer: Shanghai Tenglong Agrochem Co., Ltd.

Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai

Phone Numbers: Tel: 86-21 5506 3225

Fax: 86-21-5506 3699

2. COMPOSITION/INFORMATION ON INGREDIENTS

Assay: 92%

CAS: 2597-03-7

3. HAZARDS IDENTIFICATION

Hazards to human health: Phenthoate is an organophosphorous compound, toxic by inhalation and toxic in contact with skin and if swallowed. It may cause sensitization and burns.

Safety hazards: Toxic

4. FIRST AID MEASURES

Antidote: Atropine, PAM, 2-PAMCl, 2-PAMM

Eye contact: Flush eyes with plenty of water. Get medical attention.

Skin contact: Immediately remove contaminated clothing. Wash contaminated areas with soap and copious quantities of water, followed by alcohol. Seek medical advice if irritation occurs.

Ingestion: Seek immediate medical attention. Induce vomiting if person is conscious. If vomiting occurs, keep head below hips to prevent aspiration.

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam or water spray, carbon dioxide

Exposure risks: The product does not burn. However, it easily evaporates. Do not breathe smoke, gases or vapours generated.

Special fire fighting procedures: Evacuate and isolate fire area.

Special protective equipment for fire fighters: Self-contained respiratory apparatus, full-face mask and protective clothing must be worn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Isolate spill area and deny entrance to unnecessary people. Prevent contact

with skin and eyes and prevent inhalation. Wear protective clothing.

Methods for cleaning up: Do not touch spilled material. Handling according to local/national regulation of pesticide cleaning up step.

7. HANDLING AND STORAGE

See label. Store in original container, preferably in a locked area, away from children, food, feed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Secure suction ventilation at source.

Respiratory protection: Respirator (full-face mask) must be worn.

Hand protection: Protective gloves are necessary.

Eye protection: Eye protection, preferably a face shield, must be worn.

Skin and body: Overalls and impermeable safety boots are necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Reddish-yellow liquid

Melting point: 17.5 °C

Specific gravity: 1.22

Solubility in water: 0.02% in water at 20 °C

10. STABILITY AND REACTIVITY

Stability: Stable.

Polymerisation: Will not polymerize.

Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides, oxides of sulfur, oxides of phosphorous, water. Materials to avoid: Strong acids, strong alkalis, strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Oral LD 50 440 mg/kg

Dermal LD50 2100 mg/kg

12. ECOLOGICAL INFORMATION

Hazards: Fish: LC100=4.5 mg/l (goldfish)

Bee: Toxic

13. DISPOSAL CONSIDERATIONS

In compliance with national/local authority regulations for disposal of chemical waste (Pesticide).

14. TRANSPORT INFORMATION

CHINA: Dangerous goods for transport

IMO: Dangerous goods for transport.

IATA/ICAO: Dangerous goods for transport.

Proper shipping name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC

Shanghai Tenglong Agrochem Co., Ltd www.tlongagro.com

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Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai

UN NO.: 3018

IMO Class: 6.1

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Chemical name: Phenthoate

15. REGULATORY INFORMATION

This product is listed in dangerous chemical substance in China

16. OTHER INFORMATION

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 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. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.