
COOPERS ENVIRONMENTAL SCIENCE (PTY) LTD.



Material Safety Data Sheet

Revised on: 1 June 2014

Revision number 3

1. Substance/preparation and company identification

MOSTOP

Use: Public Health, Insecticide

Company:

Coopers Environmental Science (Pty) Ltd.

Reg. No. 2000/023667/07

P.O. Box 14374

BREDELL 1623

SOUTH AFRICA

TEL: (011) 979-4246/7

Emergency contact numbers

Tygerberg Poison Center: +2721 931 6129

Griffon Poison Information Centre - 082 446 8946

2. Composition/information on ingredients

Chemical nature

Hazardous ingredients

Temephos (organophosphate)	500 g/l
CAS Number: [3383-96-8]	

3. Hazard identification

Hazards: Primary: - Organophosphorus pesticides, liquid, toxic, flammable, n.o.s.

Contains: Temephos.

Nature of Hazard:

Slightly hazardous if swallowed, on skin contact or inhalation.

The toxin is an organophosphorus cholinesterase inhibitor;

Symptoms of poisoning may develop after several hours.

Contact with the liquid may cause irritation to eyes and skin.

Flammable liquid. Flash point: 49 °C (Closed Cup).

Decomposes in a fire to emit fumes of PO_x and SO_x .



4. First-aid measures

- Skin contact:** Immediately remove contaminated clothing, wear rubber gloves and protect clothing, rinse the affected skin area with plenty of soap and cool water or shower. Speed and thoroughness is essential. DO NOT rub skin hard.
- Eye contact:** Immediately wash eyes with copious amounts of clean water for at least 15 min, cover with a sterile pad and contact a doctor.
- Ingestion:** Keep patient calm and reassured, put in recovery position, rinse mouth with water. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove patient from source of poisoning to well-ventilated area and keep him calm and reassured. If necessary, administer artificial respiration and oxygen or closed chest cardiac massage.

Note to physician: Administer Atropine sulphate, intravenously (1 to 4 mg) every 5 to 10 minutes until signs of atropinisation, (dry flushed skin and tachycardia); 2-PAM 50 mg/kg up to total dose of 1 to 2 g or two thirds of this dose of Protopam. Repeat oximes if necessary.

SEEK MEDICAL ADVICE PROMPTLY AND SHOW THIS MSDS TO A MEDICAL PRACTITIONER

5. Fire-fighting measures

Flammable liquid

Personnel involved in a fire situation with this material should wear a self-contained breathing apparatus as toxic and corrosive fumes may be given off.

No unprotected person should be allowed in the vicinity.

Temephos decomposes in a fire to emit fumes of SO_x and PO_x .

Fire extinguishing agents to be used: Foam, dry chemical, carbon dioxide, water spray (fog).

6. Accidental release measures

Soak up spillage with dry sand, shovel up carefully and dispose of as for toxic waste in accordance with local/national regulations.

DO NOT burn.



7. Handling and storage

Storage:	Store under lock and key. Store in a cool, dry place away from sources of heat and naked flames. Store away from foodstuffs, eating utensils, feeds and drinking water. Keep out of reach of children and pets.
Handling precautions:	For use as directions on the label only. Wear protective clothing and respirator when handling the concentrate. Do not eat, drink or smoke whilst mixing or applying. All protective clothing shall be decontaminated, washed, rinsed and dried before re-use. Wash applicator, receptacles etc., thoroughly before re-using with other materials. Prepare only sufficient baits and/or dilutions for immediate use.

8. Exposure controls and personal protection

Respiratory protection:

When respiratory protection is required the use of an approved air-purifying respirator equipped with organic vapour cartridges is recommended.

Hand/skin Protection:

Chemical resistant gloves(preferably nitrile), body covering that has long sleeves and long pants, and chemical resistant boots are required to prevent skin contamination. A chemical resistant apron is required if there is a risk of spillage or splashing.

Eye/Face Protection:

Safety glasses should be worn whenever working with chemicals. Goggles or face shield are required if there is a chance of splashing.

9. Physical and chemical properties

Description:	Clear brown, mobile liquid
Solubility:	Emulsifies in water
Flash point:	49 °C
Degradation:	Temephos in mammals: Elimination is mainly of unchanged temephos in the faeces and urine.

10. Stability and reactivity

Corrosiveness:	N/A
Stability:	Stable

Compatibility: Compatible with strong alkaline and oxidizing agents

Fire : Temephos decomposes in a fire to emit fumes of SO_x and PO_x



11. Toxicological information (active ingredient)

Toxicity:

The product is unlikely to cause an acute hazard in normal use.

Temephos, technical is an organophosphate cholinesterase inhibitor absorbed on ingestion, inhalation and skin contact.

Acute oral LD₅₀ for rats: 4204 mg/kg

Acute percutaneous LD₅₀ (24h) for rabbits: 2181 mg/kg

TLV – TWA for temephos: 10 mg/m³

12. Ecological information

Ecotoxicity

Toxicity to fish:

LC₅₀ for rainbow trout: 31.5 mg/l

13. Disposal considerations

Disposal of Residue

Residue to be disposed of as for toxic waste in accordance with local/national regulations.

Disposal of Used Packaging Material

Empty containers to be disposed of as toxic waste in accordance with local/national regulations.

Do not re-use for any other purpose.

14. Transport information

UN No:	3017
Class:	Organophosphate
IMDG:	
Ems:	•
MFAG:	•
Subsidiary risk:	•
Packing group:	

Declaration for land shipment: 3017 ORGANOPHOSPHORUS PESTICIDE , LIQUID , TOXIC , FLAMMABLE

Declaration for sea shipment: 3017 ORGANOPHOSPHORUS PESTICIDE , LIQUID , TOXIC ,
FLAMMABLE

Declaration for shipment by air: 3017 ORGANOPHOSPHORUS PESTICIDE , LIQUID , TOXIC ,
FLAMMABLE



15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

The product is registered as L 4622 under the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, Act 36, 1947.

Hazard Symbol: Xn – Harmful

Risk Phrases: Flammable. (R10)

Harmful if swallowed. (R22)

Irritation to skin (R39)

Safety Phrases: Keep out of reach of children (S2)

Keep away from food, drink and animal feeding stuffs (S13)

When using do not eat, drink or smoke. (S20/21)

Avoid contact with skin (S24)

If swallowed, do not induce vomiting: seek medical advice immediately and show
this container or label. (S62)

16. Other information

Classification and labelling

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents the data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications – usage in such may cause risks not mentioned in the sheet. Do not use for other application(s) without seeking advice from manufacturer. Applicable Laws Refer to the Dangerous Substance Directive (67/548/EEC) Refer to the Dangerous Preparations Directive (88/379/EEC)

Consult the label for directions for use.

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS
SPECIFICATIONS AND LIMITED TO THE USES HEREIN STATED.



This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.

If the logo in this document is not in colour, this document is a photocopy and could be out of date.
