

SAFETY DATA SHEET



SERAPHOS 1250

Date of Issue: 31 March 2016

SDS NUMBER 1074376/5 NZ

1. Identification of the Substance/Mixture and Supplier.

Product Name:	Seraphos 1250
Other Product Names:	Emulsifiable concentrate of propetamphos
Application:	To control blowfly strike and cattle ticks, and eradicate lice and keds on sheep.
Company:	Bayer New Zealand Limited, 3 Argus Place, Hillcrest, Auckland, 0627 New Zealand.
Telephone:	0800 652 488
Facsimile:	0800 229 838
Emergency telephone:	0800 734 607 Ixom SH&E Shared services (24hr)
National Poisons Centre:	0800 POISON (0800 764766)

2. Hazards Identification.

Hazardous Status: Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO CLASSIFICATION	GHS HAZARD STATEMENTS
3.1D	H227 Combustible liquid.
6.1C (oral)	H301 Toxic if swallowed.
6.9A (repeated exposure)	H372 Causes damage to organs through prolonged or repeated exposure.
9.1A	H410 Very toxic to aquatic life with long lasting effects.
9.3B	H432 Toxic to terrestrial vertebrates.
9.4A	H441 Very toxic to terrestrial invertebrates.

Signal Word: DANGER

PREVENTION STATEMENTS

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260	Do not breathe mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE STATEMENTS

P370 + P378	In case of fire: Use foam, carbon dioxide or dry chemical powder for extinction.
P101	If medical advice is needed, have product container or label at hand.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

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STORAGE STATEMENTS	
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

DISPOSAL STATEMENTS	
P501	Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.

GHS DIAMONDS

3. Composition/Information on Ingredients.

<u>Chemical Entity</u>	<u>CAS No</u>	<u>Proportion %</u>
propetamphos (technical grade)		
to give propetamphos	31218-83-4	36
hydrocarbon liquids		<40
surfactant		>20

4. First Aid Measures.

General Information:	Remove victim from contaminated area. If there is a risk of unconsciousness, position and transport in a stable lateral position. Remove soiled or soaked clothing immediately. Read label before use.
Skin Contact:	Immediately remove all contaminated clothing, including footwear. Wash affected areas thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation persists. Take container / label or MSDS for identification.
Eye Contact:	Immediately wash open eye in a flow of water for at least 15 minutes. Seek medical assistance if irritation persists. Take container / label or MSDS for identification.
Ingestion:	Give water to dilute. Seek immediate medical assistance. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Take container / label or MSDS for identification.
Inhalation:	Remove patient to fresh air, avoid breathing vapours yourself. If not breathing apply resuscitation. Seek medical assistance. Take container / label or MSDS for identification.
Notes for medical personal:	Antidote: Atropine as soon as possible. Can be given in combination with pralidoxime as the actions of both drugs are complementary. Mild: 1mg IV or IM, and pralidoxime 7.5-10mg/kg IM. Moderate: 2mg IV or IM every 10-15 minutes, and pralidoxime 1-2mg/IV or 7.5-10mg/kg IM, repeatable after 1 hour then every 8-12 hours. Severe: 4-5mg IV or IM every 10-15 minutes, then 0.08mg/kg per hour if needed, concurrent with pralidoxime 1-2mg/IV, repeated after 1 hour then every 8-12 hours.
Further Information:	Contact the National Poisons and Hazardous Chemicals Information

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centre in Dunedin, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.

5. Fire-Fighting Measures.

Extinguishing media and methods: Foam, CO₂, Water fog.
Recommended protective clothing: Fire fighters should wear self contained breathing apparatus.
Further Information: In the event of fire, the gas is poisonous.
Make provision for product and fire fighting water to be retained.
This product is non-flammable, non-explosive and non-combustible.

6. Accidental Release Measures.

Spill and leak procedure: Do not empty into drains or waters. Take up spilled product with absorbent material (e.g. sawdust, peat, chemical binder). Fill materials taken up into closable container. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable. Do not eat, drink or smoke during cleanup operation.
Protective Equipment: Wear self contained breathing apparatus in enclosed areas. In well ventilated areas a full face mask with combination filter P2 (offers no protection from carbon monoxide)In special cases additional measures for personal protection may be necessary, e.g. wearing chemical-resistant and possibly anti static protective gloves or boots and chemical-resistant suit with or without independent air supply.

7. Handling and Storage.

Handling: Only handle in well ventilated areas.
Storage: Store in tightly sealed original containers in a dry secure place away from feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

8. Exposure Control/Personal Protection

Engineering measures: No special requirements. Product is used outdoors.
Personal Protective Measures: Avoid contact with eyes, skin and inhalation of either concentrate or diluted shower dip material. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
Hygiene measures: Keep the place of work clean. Avoid contact with product. Keep working clothes separate. Change badly soiled or soaked clothing immediately.

9. Physical and Chemical Properties

Form: Liquid
Colour: Golden yellow
Odour: Non specific
Boiling Point: Approx. 155°C
Flash Point: 63°C
Density: 1.0 – 1.2 g/cm³ at 15°C
Solubility in water: Emulsifiable
Flash point: >90°C closed cup

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10. Stability and Reactivity

Stability: No data

Possibility of hazardous reactions: No data

Hazardous decomposition products: No data

11. Toxicological Information

Acute toxicity: LD₅₀ oral, rat: 119 mg/kg for active
LD₅₀ dermal, rat: 2825 mg/kg for active
LD₅₀ inhalation, rat: (LC₅₀ (4 h) 1.5mg/litre air) for the active in aerosol

Poisoning symptoms: May include headache, contracted pupils, blurred vision, salivation, heavy sweating, weakness, nausea, vomiting, stomach pains, diarrhoea and muscle twitching.

Chronic toxicity: (active) Propetamphos is an organophosphate compound with anticholinesterase inhibitory properties. The symptoms of poisoning may include a feeling of unnatural exhaustion and weakness which may be accompanied by cramp-like abdominal pains, diarrhoea, excessive sweating and salivation up to 12 hours after exposure. Severe poisoning causes generalised muscle twitching.

12. Ecological Information

Acute fish toxicity: LC₅₀ (96 h), 4.7mg/litre, Rainbow trout

Acute Daphnia toxicity: LC₅₀ (96 h), 6.4mg/litre, Carp

EC₅₀ (48hr) 0.015mg/litre

13. Disposal Considerations.

Disposal Farm: After intended use: Triple rinse empty container with water and empty into spray tank. Destroy the empty container by puncturing and crushing. Dispose of destroyed container by taking to an approved council disposal site or alternatively bury under at least 50cm of soil in a location away from houses, crops, stock, stock watering places, water supply and ground water.

Disposal Warehouse: In cases where large amounts of product have become unusable, it should be established whether material utilisation is possible, (if necessary consult the manufacturing supplier). Small amounts of the product and uncleaned empty packaging should be packed, sealed, and labelled. Disposal should only be through an approved chemical waste disposal company.

Empty Container precautions: Triple rinse empty container with water and empty into spray tank. Destroy the empty container by puncturing and crushing.

14. Transportation Information.

Proper Shipping Name: ORGANOPHOSPORUS PESTICIDE, LIQUID, TOXIC (36%)

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UN Number:	propetamphos) 3018
Hazard Class:	6
Hazchem Code:	2X
Packing Group:	III
Flashpoint °C	63°C
Marine pollutant:	Yes
Hazardous substance regulation:	Maximum quantity per package permitted on passenger service vehicles 0.1L



15. Regulatory Information.

ACVM Number: A004265

HSNO Approval Number: HSR001803

HSNO Classification

3.1D, 6.1C(oral), 6.9A, 9.1A, 9.3B, 9.4A

Controls for hazardous substances:

Level 2 Emergency Management Information required when >0.1L is present in a workplace.

Level 3 Emergency Management Plans required when >100L is present in a workplace.

At least 2 x 4.5kg powder fire extinguishers required when >500L is present in a workplace

When an excess of 1000L is stored, signage is required for toxic substances.

When an excess of 100L is stored, signage is required for ecotoxic substances.

This is a Tracked substance which must be under the control of a HSNO Approved Handler or secured.

Veterinarians who are holders of a current annual retention certificate are deemed to be approved handlers for storing or using this substance other than when it is being stored for resale.

16. Other Information.

HSNO = Hazardous Substances and New Organisms Act.

EPA = Environmental Protection Authority

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.