

Safety data sheet

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BASF Safety data sheet

Date / Revised: 30.11.2010

Version: 3.2

Product: **ABATE® 10SG MOSQUITO LARVICIDE GRANULES**

Classified as hazardous according to criteria of NOHSC

317 00 I

(30150912/SDS_CPA_AU/EN)

Date of print 30.11.2010

1. Substance/preparation and company identification

ABATE® 10SG

Use: Organophosphorus insecticide for control of mosquito and nuisance midge larvae.

Company:

BASF Australia Limited (ABN 62 008 437 867)

Level 12, 28 Freshwater Place Southbank

Victoria 3006, AUSTRALIA

Telephone: +61 3 8855-6600

Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]

BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

HAZARDOUS SUBSTANCE, DANGEROUS GOOD

Irritating to eyes.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

When using do not eat, drink or smoke.

Avoid contact with eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Do not empty into drains.

This material and its container must be disposed of in a safe way.

Use appropriate container to avoid environmental contamination.

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3. Composition/information on ingredients

Chemical nature

Insecticide, granules (GR)

Hazardous ingredients

temephos

Content (W/W): 1 %
CAS Number: 3383-96-8
EC-Number: 222-191-1
Hazard symbol(s): Xn, N
R-phrases: 20, 50/53

calciumdodecylbenzenesulfonate

Content (W/W): $\geq 0.4\%$ - $\leq 0.5\%$
CAS Number: 26264-06-2
EC-Number: 247-557-8
Hazard symbol(s): Xi
R-phrases: 10, 36/38, 52/53

The wording of the hazard symbols and R-phrases is specified in Section 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

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

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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Note to physician:

Treatment: Treat according to symptoms (decontamination, vital function), administer atropine for cholinesterasis inhibition.

5. Fire-Fighting Measures

Suitable extinguishing media:
water spray, foam, dry powder, carbon dioxide

Specific hazards:
carbon monoxide, sulfur oxides, phosphorus oxides
The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:
Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions:
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For small amounts: Sweep/shovel up.
For large amounts: Sweep/shovel up.
Avoid raising dust. Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

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Protection against fire and explosion:

Avoid dust formation. Avoid deposition of dust. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds. Segregate from strong oxidizing agents.
Further information on storage conditions: Protect against moisture. Keep away from heat. Protect from direct sunlight.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Components with workplace control parameters

temephos, 3383-96-8; (Content (W/W): 1 %)

TWA value 10 mg/m³ (OEL (AU))

TWA value 1 mg/m³ (ACGIHTLV), Inhalable fraction and vapor

Skin Designation (ACGIHTLV), Inhalable fraction and vapor

The substance can be absorbed through the skin.

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Breathing protection if dusts are formed. Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact
(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Professional Pest Control Product:

Do not inhale dust. Wash hands after use. Avoid contact with the skin, eyes and clothing.
Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing.
Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating,

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drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Form: granules
Colour: brown
Odour: of mercaptans

Flammability: does not ignite
Explosion hazard: not explosive
Fire promoting properties: not fire-propagating

Bulk density: 1,200 - 1,520 kg/m³

Solubility in water: not soluble
Partitioning coefficient n-octanol/water (log Pow): not applicable

10. Stability and Reactivity

Conditions to avoid: > 49°C

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid: Strong oxidizing agents, alkalies.

Hazardous reactions: No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

LD50 rat (oral): > 5,000 mg/kg (product)

The product has not been tested. The statement has been derived from products of a similar structure or composition.

LD50 rabbit (dermal): > 2,000 mg/kg (product)

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The product has not been tested. The statement has been derived from products of a similar structure or composition.

Information on: Temephos
LC50 rat (by inhalation): > 4.8 mg/l 4 h

Irritation

Primary skin irritation rabbit: Slightly irritating (product)
The product has not been tested. The statement has been derived from products of a similar structure or composition.

Primary irritations of the mucous membrane rabbit: Irritant (product)
The product has not been tested. The statement has been derived from products of a similar structure or composition.

Assessment other acute effects

Assessment other acute effects:
The available information is not sufficient for evaluation.

Sensitization

Information on: Temephos
Modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

Repeated dose toxicity

Assessment of repeated dose toxicity:
No data available.

Genetic toxicity

Assessment of mutagenicity:
No data available.

Carcinogenicity

Assessment of carcinogenicity:
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Reproductive toxicity

Assessment of reproduction toxicity:
No data available.

Developmental toxicity

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Assessment of teratogenicity:
No data available.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Toxicity to fish:
LC50 (96 h) 0.014 mg/l (product)
The product has not been tested. The statement has been derived from products of a similar structure or composition.

Information on: Temephos
Toxicity to fish:
LC50 (96 h) 9.6 mg/l, *Oncorhynchus mykiss*

Persistence and degradability

Information on: Temephos
Assessment biodegradation and elimination (H₂O):
Not readily biodegradable (by OECD criteria).

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Domestic transport:

Hazard class:	9
Packing group:	III
ID number:	UN 3077
Hazard label:	9, EHS
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TEMEPHOS 1%)

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Further information

Hazchem Code:2Z
 IERG Number:47

Sea transport

IMDG

Hazard class: 9
 Packing group: III
 ID number: UN 3077
 Hazard label: 9, EHSM
 Marine pollutant: YES
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (contains TEMEPHOS 1%)

Air transport

IATA/ICAO

Hazard class: 9
 Packing group: III
 ID number: UN 3077
 Hazard label: 9, EHSM
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (contains TEMEPHOS 1%)

Further information

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 kg or 500 L.

15. Regulatory Information**Standard for the Uniform Scheduling of Drugs and Poisons (Australia):**

Poisons Schedule: Drugs & Poisons, Schedule 5

Hazard symbol(s)

Xi Irritant.
 N Dangerous for the environment.

R-phrases(s)

R36 Irritating to eyes.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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S-phrase(s)	
S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29	Do not empty into drains.
S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: TEMEPHOS, calciumdodecylbenzenesulfonate

Other regulations

Registration status:

AICS, AU released / exempt

16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in Section 3:

Xn	Harmful.
N	Dangerous for the environment.
Xi	Irritant.
20	Harmful by inhalation.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
10	Flammable.
36/38	Irritating to eyes and skin.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.