

Safety data sheet

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BASF Safety data sheet

Date / Revised: 21.06.2010

Product: **PHANTOM® INSECTICIDE**

Version: 2.0

Classified as hazardous according to criteria of NOHSC

306 02 I

(30278687/SDS_CPA_AU/EN)

Date of print 03.08.2010

1. Substance/preparation and company identification

PHANTOM® INSECTICIDE

Use: crop protection product, insecticide

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

Harmful if swallowed.

Toxic by inhalation.

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

Keep locked up.

Keep away from food, drink and animal feeding stuffs.

When using do not eat, drink or smoke.

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

Wear suitable protective clothing and gloves.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Use appropriate container to avoid environmental contamination.

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3. Composition/information on ingredients

Chemical nature

crop protection product, insecticide, suspension concentrate (SC)

Hazardous ingredients

Chlorfenapyr

Content (W/W): 21.4 %
CAS Number: 122453-73-0
Hazard symbol(s): T, N
R-phrase(s): 22, 23, 50/53
Hazard symbol(s): T
R-phrase(s): 23
Hazard symbol(s): Xn
R-phrase(s): 22
Hazard symbol(s): N
R-phrase(s): 50, 53

The wording of the hazard symbols and R-phrases is specified in chapter 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. 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 functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
water spray, carbon dioxide, foam

Specific hazards:

carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen 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. Remove contaminated clothes, undergarments and shoes immediately.

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: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Cleaning operations should be carried out only while wearing breathing apparatus. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly.

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Protection against fire and explosion:
No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Storage

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

Storage stability:
Storage duration: 24 Months

Protect from temperatures below: 0 °C
The product can crystallize below the limit temperature.
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

no exposure standard allocated

Personal protective equipment

Respiratory protection:
Respiratory protection in case of vapour/aerosol release. Particle filter with high efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P3 or FFPE).

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).

General safety and hygiene measures:
The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. 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, 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.

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9. Physical and Chemical Properties

Form:	liquid	
Colour:	white to light brown	
Odour:	sweetish	
pH value:	approx. 6.9 (2 %(m), 20 °C)	
Freezing point:	approx. 0 °C (1,013.3 hPa) Information applies to the solvent.	
Boiling point:	approx. 100 °C (1,013 mbar) Information applies to the solvent.	
Flash point:	No flash point - Measurement made up to the boiling point.	(ASTM D93)
Flammability:	does not ignite	
Self ignition:	Based on the water content the product does not ignite.	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	approx. 23.3 hPa (20 °C) Information applies to the solvent.	
Density:	1.1144 - 1.1631 g/cm ³ (20 °C)	
Solubility in water:	dispersible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Surface tension:	43.7 mN/m (20 °C; 1 g/l) 38.1 mN/m (20 °C; 10 g/l)	(OECD-Guideline 115, Plate method) (OECD-Guideline 115, Plate method)

10. Stability and Reactivity

Conditions to avoid:
 183 °C

Disregard of the conditions mentioned may result in undesirable decomposition reactions.

Thermal decomposition: No decomposition if stored and handled as

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prescribed/indicated.

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): 560 - 567 mg/kg

LC50 rat (by inhalation): 0.571 mg/l 4 h (OECD Guideline 403)
An aerosol was tested.

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

Irritation

Primary skin irritation rabbit: non-irritant

Primary irritations of the mucous membrane rabbit: non-irritant

Sensitization

modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies. (OECD Guideline 406)

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Toxicity to fish:

LC50 (96 h) 0.0239 mg/l, *Oncorhynchus mykiss* (Flow through.)

Aquatic invertebrates:

EC50 (48 h) 0.012 mg/l, *Daphnia magna* (static)

Aquatic plants:

EC50 (72 h) 4.09 mg/l, *Selenastrum capricornutum* (OECD Guideline 201)

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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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 dumped 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 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains CHLORFENAPYR 22%)

Further information

Hazchem Code:3Z
 IERG Number:47

Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains CHLORFENAPYR 22%)

Air transport

IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM

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Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (contains CHLORFENAPYR 22%)

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 InformationStandard for the Uniform Scheduling of Drugs and Poisons (Australia):

Poisons Schedule: Drugs & Poisons, Schedule 6

Hazard symbol(s)

T Toxic.
 N Dangerous for the environment.

R-phrases(s)

R22 Harmful if swallowed.
 R23 Toxic by inhalation.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S1 Keep locked up.
 S13 Keep away from food, drink and animal feeding stuffs.
 S20/21 When using do not eat, drink or smoke.
 S35 This material and its container must be disposed of in a safe way.
 S36/37 Wear suitable protective clothing and gloves.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S57 Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: Chlorfenapyr**Other regulations**

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

Registration status:

AICS, AU released / exempt
 APVMA Approval 63575

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16. Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

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

T	Toxic.
N	Dangerous for the environment.
Xn	Harmful.
22	Harmful if swallowed.
23	Toxic by inhalation.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
50	Very toxic to aquatic organisms.
53	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.