

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 28.04.2014

Version: 2.1

Product: **PHANTOM® II PRESSURIZED INSECTICIDE**

Classified as hazardous according to criteria of NOHSC

(30570517/SDS\_CPA\_AU/EN)

Date of print 29.04.2014

## 1. Substance/preparation and company identification

### PHANTOM® II PRESSURIZED INSECTICIDE

Use: crop protection product, insecticide

Manufacturer/supplier:

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

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray into flames or onto glowing objects.

Extremely flammable.

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

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

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Keep away from sources of ignition - No smoking.  
When using do not eat, drink or smoke.  
Do not empty into drains.  
This material and its container must be disposed of in a safe way.  
If swallowed, seek medical advice immediately and show this container or label.  
Use appropriate container to avoid environmental contamination.

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### 3. Composition/information on ingredients

#### Chemical nature

biocide, insecticide

#### Hazardous ingredients

Chlorfenapyr

Content (W/W): 0.5 %  
CAS Number: 122453-73-0  
Hazard symbol(s): T, N  
R-phrases: 22, 23, 50/53

acetone

Content (W/W): < 50 %  
CAS Number: 67-64-1  
Hazard symbol(s): F, Xi  
R-phrases: 11, 36, 66, 67

dimethyl ether

Content (W/W): < 20 %  
CAS Number: 115-10-6  
Hazard symbol(s): F+  
R-phrases: 12

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

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### 4. First-Aid Measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### 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.

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On contact with eyes:

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

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Hazards: Danger of drowsiness and dizziness.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

Specific hazards:

carbon monoxide, carbon dioxide, hydrogen bromide, hydrogen chloride, hydrogen fluoride, 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.

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## 6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

Environmental precautions:

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

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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.

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.

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## 7. Handling and Storage

### Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Vapours may form ignitable mixture with air.

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Avoid extreme heat.

### Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight. Keep at temperature not exceeding 50°C. Keep out of the reach of children. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

acetone, 67-64-1;

TWA value 500 ppm (ACGIHTLV)

STEL value 750 ppm (ACGIHTLV)

TWA value 1,185 mg/m<sup>3</sup> ; 500 ppm (OEL (AU))STEL value 2,375 mg/m<sup>3</sup> ; 1,000 ppm (OEL (AU))TWA value 1,185 mg/m<sup>3</sup> ; 500 ppm (AU NOEL)STEL value 2,375 mg/m<sup>3</sup> ; 1,000 ppm (AU NOEL)

dimethyl ether, 115-10-6;

TWA value 760 mg/m<sup>3</sup> ; 400 ppm (OEL (AU))STEL value 950 mg/m<sup>3</sup> ; 500 ppm (OEL (AU))STEL value 950 mg/m<sup>3</sup> ; 500 ppm (AU NOEL)TWA value 760 mg/m<sup>3</sup> ; 400 ppm (AU NOEL)

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### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

#### 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:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.

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## 9. Physical and Chemical Properties

Form: liquid, aerosol  
Colour: yellow to orange  
Odour: solvent-like

pH value: approx. 6 - 8  
(approx. 20 °C)

#### Melting point:

The product has not been tested.

#### Boiling point:

approx. 56 °C  
Information applies to the solvent.

#### Flash point:

< -28 °C

(Directive 92/69/EEC, A.9)

#### Flammability:

Extremely flammable.

#### Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

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Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.	
Ignition temperature:	530 °C	(Regulation 440/2008/EC, A.15)
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	approx. 7 bar (20 °C)	
Density:	approx. 0.94 g/cm <sup>3</sup> (approx. 20 °C)	
Relative vapour density (air):	not determined	
Solubility in water:	miscible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, dynamic:	not determined	

**Other Information:**

If necessary, information on other physical and chemical parameters is indicated in this section.

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## 10. Stability and Reactivity

**Conditions to avoid:**

See MSDS section 7 - Handling and storage.

Thermal decomposition: not determined

**Substances to avoid:**

strong bases, strong acids, strong oxidizing agents

**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.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:

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Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 425)

LC50 rat (by inhalation): > 2.11 mg/l 4 h (OECD Guideline 403)  
No mortality was observed. An aerosol was tested.

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

### **Irritation**

Assessment of irritating effects:  
Not irritating to the skin. Not irritating to the eyes.

Primary skin irritation rabbit: non-irritant (OECD Guideline 404)

Primary irritations of the mucous membrane rabbit: non-irritant (OECD Guideline 405)

### **Assessment other acute effects**

Assessment other acute effects:  
Possible narcotic effects (drowsiness or dizziness).

### **Sensitization**

Assessment of sensitization:  
The product has not been tested. The statement has been derived from the properties of the individual components. There is no evidence of a skin-sensitizing potential.

Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

Information on: Chlorfenapyr  
Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

### **Repeated dose toxicity**

Assessment of repeated dose toxicity:  
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: acetone

Assessment of repeated dose toxicity:

The substance may cause damage to the testes after repeated ingestion of high doses, as shown in animal studies. The substance may cause damage to the hematological system after repeated ingestion of high doses. The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

### **Genetic toxicity**

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Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### **Carcinogenicity**

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### **Reproductive toxicity**

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: acetone

Assessment of reproduction toxicity:

As shown in animal studies, the product may cause damage to the testes after repeated high exposures that cause other toxic effects.

### **Developmental toxicity**

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### **Other relevant toxicity information**

Misuse can be harmful to health.

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray into flames or onto glowing objects.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Information on: Chlorfenapyr

Toxicity to fish:

LC50 (96 h) 0.00744 mg/l, *Oncorhynchus mykiss* (Directive 84/449/EEC, C.1, Flow through.)



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Information on: Chlorfenapyr

Aquatic invertebrates:

EC50 (96 h) 0.00203 mg/l, Mysidopsis bahia (Directive 84/449/EEC, C.2)

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Information on: Chlorfenapyr

Aquatic plants:

EC50 (72 h) 0.132 mg/l, Pseudokirchneriella subcapitata (OECD Guideline 201)

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### **Mobility**

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Chlorfenapyr

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Chlorfenapyr

Assessment biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable (by OECD criteria).

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### **Bioaccumulation potential**

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Chlorfenapyr

Assessment bioaccumulation potential:

Accumulation in organisms is not to be expected.

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### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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### 13. Disposal Considerations

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Emptied gas pressure vessels must not be opened.

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

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### 14. Transport Information

#### Domestic transport:

Hazard class: 2.1  
ID number: UN 1950  
Hazard label: 2.1, EHSM  
Proper shipping name: AEROSOLS (contains ACETONE/DIMETHYLKETONE, CHLORFENAPYR)

#### Further information

IERG Number:49

#### Sea transport

IMDG

Hazard class: 2.1  
ID number: UN 1950  
Hazard label: 2.1, EHSM  
Marine pollutant: YES  
Proper shipping name: AEROSOLS (contains ACETONE/DIMETHYLKETONE, CHLORFENAPYR)

#### Air transport

IATA/ICAO

Hazard class: 2.1  
ID number: UN 1950  
Hazard label: 2.1  
Proper shipping name: AEROSOLS, FLAMMABLE (contains ACETONE/DIMETHYLKETONE, CHLORFENAPYR)

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### 15. Regulatory Information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) (Australia):

Poisons Schedule: Drugs & Poisons, Schedule 5

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## Hazard symbol(s)

F+ Extremely flammable.  
 Xi Irritant.  
 N Dangerous for the environment.

## R-phrases(s)

R12 Extremely flammable.  
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R66 Repeated exposure may cause skin dryness or cracking.  
 R67 Vapours may cause drowsiness and dizziness.

## S-phrases(s)

S2 Keep out of the reach of children.  
 S13 Keep away from food, drink and animal feeding stuffs.  
 S16 Keep away from sources of ignition - No smoking.  
 S20/21 When using do not eat, drink or smoke.  
 S29 Do not empty into drains.  
 S35 This material and its container must be disposed of in a safe way.  
 S46 If swallowed, seek medical advice immediately and show this container or label.  
 S57 Use appropriate container to avoid environmental contamination.

**Hazard determining component(s) for labelling: CHLORFENAPYR,  
 ACETONE/DIMETHYLKETONE, DIMETHYLETHER**

Other regulations**Registration status:**

AICS, AU released / exempt  
 APVMA 67325

**16. Other Information**

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

T Toxic.  
 N Dangerous for the environment.  
 F Highly flammable.  
 Xi Irritant.  
 F+ Extremely flammable.  
 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.  
 11 Highly flammable.  
 36 Irritating to eyes.

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66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
12	Extremely flammable.

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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.