

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 05.05.2014

Product: **AMDRO® C/ROACH GEL**

Version: 5.0

Classified as hazardous according to criteria of NOHSC

(58677585/SDS\_CPA\_AU/EN)

Date of print 07.05.2014

## 1. Substance/preparation and company identification

### **AMDRO® C/ROACH GEL**

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

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Keep out of the reach of children.

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.

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

Bait, insecticide

#### Hazardous ingredients

Hydramethylnon technical

Content (W/W): 2 %  
CAS Number: 67485-29-4  
Hazard symbol(s): T, N  
R-phrase(s): 22, 36, 48/25, 50/53  
Hazard symbol(s): T  
R-phrase(s): 48/25  
Hazard symbol(s): Xn  
R-phrase(s): 22  
Hazard symbol(s): Xi  
R-phrase(s): 36  
Hazard symbol(s): N  
R-phrase(s): 50, 53

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:

Immediately wash thoroughly with soap and water, seek medical attention.

#### On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

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

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## 5. Fire-Fighting Measures

Suitable extinguishing media:  
dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

Specific hazards:  
carbon monoxide, hydrogen fluoride, carbon dioxide, 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:  
Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Avoid dust formation.

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

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: Sweep/shovel up.  
Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Collect waste in suitable containers, which can be labeled and sealed.  
Dispose of absorbed material in accordance with regulations. Avoid raising dust.

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## 7. Handling and Storage

### Handling

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

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Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Avoid dust formation. Dust can form an explosive mixture with air.

### Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Protect against moisture. Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: 0 °C

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

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.

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

propane-1,2-diol, 57-55-6;

TWA value 474 mg/m<sup>3</sup> ; 150 ppm (OEL (AU)), Total vapour and particulates  
TWA value 10 mg/m<sup>3</sup> (OEL (AU)), Particulate  
TWA value 10 mg/m<sup>3</sup> (AU NOEL), Particulate  
TWA value 474 mg/m<sup>3</sup> ; 150 ppm (AU NOEL), Total vapour and particulates  
TWA value 474 mg/m<sup>3</sup> ; 150 ppm (AU NOEL), Total vapour and particulates  
TWA value 10 mg/m<sup>3</sup> (AU NOEL), Particulate

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: 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).

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General safety and hygiene measures:

Wearing of closed work clothing is recommended. The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing.

Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

Form:	gel
Colour:	yellow to brown
Odour:	faint odour, aromatic
pH value:	approx. 3 - 5 (20 °C) (measured with the undiluted substance)
Melting point:	approx. 0 °C Information applies to the solvent.
Boiling point:	approx. 100 °C (1,013 hPa) Information applies to the solvent.
Flammability:	not 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.
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.
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. 10 mmHg (21 °C)
Density:	approx. 1.10 g/cm <sup>3</sup> (20 °C)
Bulk density:	approx. 1.10 g/cm <sup>3</sup>
Relative vapour density (air):	not applicable

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

Viscosity, dynamic: < 0.001 mPa.s (20 °C) (N-114; Viskosität nach Brookfield)

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

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:  
Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)

(by inhalation):The product has not been tested. The statement has been derived from the properties of the individual components.

LD50 rat (dermal): > 4,000 mg/kg (OECD Guideline 402)  
No mortality was observed.

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone  
LC50 rat (by inhalation): 2.9 mg/l 4 h (OECD Guideline 403)  
Tested as dust aerosol.  
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## 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)

## Sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies. (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: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

Assessment of repeated dose toxicity:

Repeated oral exposure to small quantities may affect certain organs.

## Genetic toxicity

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.

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

Assessment of carcinogenicity:

In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.

## Reproductive toxicity

Assessment of reproduction toxicity:

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

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

Assessment of reproduction toxicity:

Causes impairment of fertility in laboratory animals.

### 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.

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

Assessment of teratogenicity:

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.

## 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. Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

Toxicity to fish:

LC50 (96 h) 0.09 mg/l, *Ictalurus punctatus*, syn: *I. robustus* (static)

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

Aquatic invertebrates:

EC50 (96 h) 0.0544 mg/l, *Americamysis bahia*

No observed effect concentration (21 d) > 0.000088 mg/l, *Daphnia magna*

Information on: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

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Aquatic plants:  
EC50 (72 h) 0.01112 mg/l, Pseudokirchneriella subcapitata  
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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: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

Assessment transport between environmental compartments:

No data available.

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: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

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: 5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinnamylidenehydrazone

Bioaccumulation potential:

Bioconcentration factor: 95, Gambusia affinis (measured)

Does not accumulate in organisms.  
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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.

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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 HYDRAMETHYLNON)

### Further information

Hazchem Code:2Z  
IERG Number:47

### Sea transport

IMDG

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

### Air transport

IATA/ICAO

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 HYDRAMETHYLNON)

### 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

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

Poisons Schedule: Drugs & Poisons, Schedule 6

Hazard symbol(s)

Xn Harmful.  
 N Dangerous for the environment.

R-phrase(s)

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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.  
 S35 This material and its container must be disposed of in a safe way.  
 S36/37 Wear suitable protective clothing and gloves.  
 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: Hydramethylnon technical**

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### **Registration status:**

AICS, AU released / exempt

crop protection product; APVMA No. 50460

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## 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.  
 Xn Harmful.  
 Xi Irritant.  
 22 Harmful if swallowed.  
 36 Irritating to eyes.  
 48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.  
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in

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	the aquatic environment.
50	Very toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.

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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.