

Safety data sheet

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BASF Safety data sheet
Date / Revised: 11.04.2012
Product: **AMDRO®**

Version: 2.0

(30271154/SDS_CPA_AU/EN)

Date of print 13.04.2012

1. Substance/preparation and company identification

AMDRO®

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

NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS

Harmful 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.

3. Composition/information on ingredients

Chemical nature

insecticide, Bait

Hazardous ingredients

hydramethylnon

Content (W/W): 0.73 %
CAS Number: 67485-29-4
EC-Number: 405-090-9
Hazard symbol(s): T, N
R-phrases: 20/22, 36, 48/25, 50/53, 60

| 1,4-Benzenediol, 2-(1,1-dimethylethyl)-

Content (W/W): 0.1 %
| CAS Number: 1948-33-0

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:

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

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.

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

Methods for cleaning up or taking up:

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. Collect waste in suitable containers, which can be labeled and sealed. Dispose of absorbed material in accordance with regulations. 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.

Protection against fire and explosion:

No explosion proofing necessary. Dust can form an explosive mixture with air.

Dust can form an explosive mixture with 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.

Further information on storage conditions: Protect against moisture. Keep away from heat. Keep in a cool, well-ventilated place.

Storage stability:

Storage duration: 24 Months

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Keep container dry.
The stated storage temperature should be noted.

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

hydramethylnon, 67485-29-4; (Content (W/W): 0.73 %)
TWA value 1.4 mg/m³ ()

Personal protective equipment

Respiratory protection:

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

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:

Avoid contact with the skin, eyes and clothing. 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. Take off immediately all contaminated clothing. Keep away from food, drink and animal feeding stuffs. Store work clothing separately. 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.

9. Physical and Chemical Properties

Form: granules
Colour: tan
Odour: mild, of vegetable oils

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pH value:	neutral, not applicable
Melting point:	not applicable, The substance / product decomposes therefore not determined.
Boiling point:	The product is a non-volatile solid., not applicable
Flash point:	104 °C
Upper explosion limit:	not determined
Ignition temperature:	approx. 404 °C
Fire promoting properties:	not fire-propagating Not an oxidizer.
Vapour pressure:	negligible
Density:	not applicable
Bulk density:	240 - 384 kg/m ³
Relative vapour density (air):	not determined
Solubility in water:	insoluble
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Viscosity, dynamic:	not applicable
Viscosity, kinematic:	not applicable

Other Information:

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

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

Corrosion to metals: Corrosive effects to metal are not anticipated.

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

LC50 rat (by inhalation): 2.9 mg/l 4 h

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

Irritation

Primary skin irritation rabbit: Slightly irritating.

Primary irritations of the mucous membrane rabbit: non-irritant

Repeated dose toxicity

Assessment of repeated dose toxicity:

Not classified, due to lack of data.

Genetic toxicity

Information on: hydramethylnon

Assessment of mutagenicity:

No mutagenic effect was found in various tests with microorganisms and mammals.

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.

Information on:

5,5-dimethyl-perhydro-pyrimidin-2-one-.alpha.-(4-trifluoromethylstyryl)-.alpha.-(4-trifluoromethyl)cinn
amylidenehydrazone

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:
Lack of data.

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.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Very toxic (acute effect) to fish. Acutely toxic for aquatic plants. Acutely toxic for aquatic invertebrates.

Information on: hydramethylnon
Toxicity to fish:
LC50 (96 h) 0.16 mg/l, *Oncorhynchus mykiss*

Information on: hydramethylnon
Aquatic invertebrates:
EC50 (48 h) 1.14 mg/l, *Daphnia magna*

Information on: hydramethylnon
Aquatic plants:
EC50 1.4 ug/L, algae

Persistence and degradability

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

Information on: hydramethylnon

Bioaccumulation potential

Information on: hydramethylnon

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control. The ecological data given are those of the active ingredient.

13. Disposal Considerations

Must be sent to a suitable incineration plant, observing 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:

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

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

Poisons Schedule: Drugs & Poisons, Schedule 5

R-phrase(s)

R52/53

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

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.

Hazard determining component(s) for labelling: HYDRAMETHYLNON

Other regulations**Registration status:**

AICS, AU

released / exempt

APVMA = 47194, 56013

16. Other Information

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

T	Toxic.
N	Dangerous for the environment.
20/22	Harmful by inhalation and 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 the aquatic environment.
60	May impair fertility.

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.