

Safety Data Sheet

BASF Safety Data Sheet
Date / Revised: 27.05.2004 Version: 1.4 (NZ 0142)
Product: Basamid Granular

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1. Substance / preparation and company identification

BASAMID GRANULAR

Company:

BASF New Zealand Limited
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Fax: + 64 9 255 4307
E-mail address: reception@basf-nz.co.nz

Emergency information:

National Poisons Centre: **0800 764 766**
Emergency Advice Number: **0800 944 955 (24 hour advise in an emergency only)**

2. Hazard identification

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

3. Composition/information on ingredients

Chemical nature
crop protection product, nematocide, microgranules (MG)

Hazardous ingredients
dazomet
Content (W/W): $\geq 96\%$ - $\leq 98\%$
CAS Number: 533-74-4
EC-Number: 208-576-7
INDEX-Number: 613-008-00-X
Hazard symbol(s): Xn, N
R-phrase(s): 22, 36, 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:

Wash thoroughly with soap and water. 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:

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

5. Fire-fighting measures

Suitable extinguishing media:

water fog, foam, dry extinguishing media

Specific hazards:

carbon monoxide, sulfur oxides, 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. 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:

Avoid dust formation. Use personal protective clothing.

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: 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.

7. Handling and storage

Handling

Protect against moisture. Avoid dust formation. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Avoid dust formation. Avoid deposition of dust. 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. Protect from direct sunlight.

Storage stability:

Storage duration: 60 Months

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

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. Particle filter EN 143 Type P2, medium efficiency, (solid and liquid particles of harmful substances).

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), polyvinylchloride (0.7 mm) and other

Eye protection:

Tightly fitting safety goggles (splash goggles) (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 DIN-EN 465).

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. Wearing of closed work clothing is

recommended. Avoid contact with the skin, eyes and clothing. Remove 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.

9. Physical and chemical properties

Form: microgranules (MG)
Colour: white yellowish
Odour: characteristic
pH value: approx. 7 (as a dispersion)
Melting point: approx. 104 °C
Flash point: approx. 93 °C
Flammability: not self-igniting
Minimum ignition energy: > 1.3 J
Fire promoting properties: not fire-propagating
Bulk density: 650 - 800 kg/m³
Solubility in water: 3.6 g/l (20 °C)

10. Stability and reactivity

Conditions to avoid:
Avoid moisture.
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
Water

Hazardous reactions:
Dust explosion hazard. Contact with water or moisture liberates toxic gases.

Hazardous decomposition products:
Methyl isothiocyanate
The mentioned substance is result of gradual decomposition under influence of atmospheric humidity.

11. Toxicological information

LD50/oral/rat: 519 mg/kg
LC50/by inhalation/rat: 8.4 mg/l / 4 h
LD50/dermal/rat: > 2,000 mg/kg

Primary skin irritation/rabbit: non-irritant
Primary irritations of the mucous membrane/rabbit: non-irritant
Sensitization/guinea pig: Skin sensitizing effects were not observed in animal studies.

Additional information:
The data on toxicology refer to the active ingredient.
Misuse can be harmful to health.

12. Ecological information

Ecotoxicity

Toxicity to fish:

Oncorhynchus mykiss/LC50 (96 h): > 4.5 - < 10 mg/l

Aquatic invertebrates:

Daphnia magna/EC50 (48 h): 0.427 mg/l

Aquatic plants:

Pseudokirchneriella subcapitata/EC50 (72 h): 1.015 mg/l

Microorganisms/Effect on activated sludge:

Pseudomonas putida/EC50 (17 h): 1.8 mg/l

Persistence and degradability

Elimination information

Evaluation: Not easily biodegradable (by OECD criteria).

Chemical oxygen demand (COD): 1,270 mg/g

Biochemical oxygen demand (BOD) Incubation period 5 d: 85 mg/g

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

Land transport

ADR : Class 9

Packaging group III

UN-number 3077

Designation of goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Contains: DAZOMET 98%)

RID : Class 9

Packaging group III

UN-number 3077

Designation of goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Contains: DAZOMET 98%)

Inland waterway transport

ADNR : Class 9

Packaging group III

UN-number 3077

Designation of goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Contains: DAZOMET 98%)

Sea transport

IMDG/GGVSee : Class 9

Packaging group III

UN-number 3077

Marine pollutant YES

Exact technical name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(contains DAZOMET 98%)

Air transport

ICAO/IATA : Class 9

Packaging group III

UN-number 3077

Exact technical name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(contains DAZOMET 98%)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

EC-Number: 208-576-7

EEC Directives:

Hazard symbol(s)

Xn Harmful.

N Dangerous for the environment.

R-phrase(s)

R22 Harmful if swallowed.

R50/53 Very toxic 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.

S35 This material and its container must be disposed of in a safe way.

S37 Wear suitable gloves.

S46 If swallowed, seek medical advice immediately and show this container or label.

S57 Use appropriate container to avoid environmental contamination.

Hazard determinant component(s) for labelling: DAZOMET

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)

16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

Xn Harmful.

N Dangerous for the environment.

22 Harmful if swallowed.

36 Irritating to eyes.

50/53 Very toxic 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.

<p>DISCLAIMER: The information provided in this SDS is based upon sources believed to be accurate. However, BASF New Zealand Limited assumes no responsibility for the accuracy, completeness or suitability of this information. The product recipient/user is responsible for determining the suitability of this information for their particular purposes, and for observing existing laws and regulations.</p>
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