

Safety data sheet

Page: 1/11

BASF Safety data sheet

Date / Revised: 19.12.2013

Product: **TORQUE® MITICIDE**

Version: 2.1

Classified as hazardous according to criteria of NOHSC

(30516008/SDS_CPA_AU/EN)

Date of print 19.12.2013

1. Substance/preparation and company identification

TORQUE® MITICIDE

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

The product contains: Fenbutatin oxid techn.

May produce an allergic reaction.

Very toxic by inhalation.

Irritating to respiratory system.

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

Keep locked-up and out of reach of children.

Keep away from food, drink and animal feeding stuffs.

When using do not eat, drink or smoke.

Avoid contact with eyes.

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In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, wash immediately with plenty of water and soap.
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.

3. Composition/information on ingredients

Chemical nature

crop protection product, insecticide, suspension concentrate (SC)

Hazardous ingredients

Fenbutatin oxid techn.

Content (W/W): 55 %
CAS Number: 13356-08-6
Hazard symbol(s): T+, N
R-phrases(s): 26, 36/38, 50/53

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

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:
water spray, carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
carbon monoxide, 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.

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.

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. Cleaning operations should be carried out only while wearing breathing apparatus.

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. Remove contaminated clothing and protective equipment before entering eating areas.

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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.

8. Exposure controls and personal protection

Components with occupational exposure limits

fenbutatin oxide, 13356-08-6;

TWA value 0.1 mg/m³ (OEL (AU))

Measured as: tin (Sn)

STEL value 0.2 mg/m³ (OEL (AU))

Measured as: tin (Sn)

Skin Designation (OEL (AU))

Measured as: tin (Sn)

The substance can be absorbed through the skin.

STEL value 0.2 mg/m³ (AU NOEL)

Measured as: tin (Sn)

Skin Designation (AU NOEL)

Measured as: tin (Sn)

The substance can be absorbed through the skin.

TWA value 0.1 mg/m³ (AU NOEL)

Measured as: tin (Sn)

Personal protective equipment

Respiratory protection:

Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3) Suitable respiratory protection for lower concentrations or short-term effect:

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:

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

9. Physical and Chemical Properties

Form:	suspension
Colour:	white
Odour:	faint odour
pH value:	approx. 9.0 - 11.0 (1 %(m), 20.0 °C)
solidification temperature:	-9 °C
Boiling point:	100 °C Information applies to the solvent.
Flash point:	> 110 °C The product has not been tested. The statement has been derived from the properties of the individual components.
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.
Ignition temperature:	not determined
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	The product has not been tested.
Density:	approx. 1.15 g/cm ³ (20 °C)
Relative vapour density (air):	not determined

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

Viscosity, dynamic: 68 - 146 mPa.s
(20 °C, 10 1/s)

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

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

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Of very high toxicity after short-term inhalation.

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

LC50 rat (by inhalation): 0.29 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

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

No mortality was observed.

Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Primary skin irritation rabbit: non-irritant

Primary irritations of the mucous membrane rabbit: non-irritant

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Date of print 19.12.2013

Assessment other acute effects

Assessment other acute effects:
Causes temporary irritation of the respiratory tract.

Sensitization

Assessment of sensitization:
There is no evidence of a skin-sensitizing potential.

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

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. No substance-specific organotoxicity was observed after repeated administration to animals.

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. 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. The results of animal studies gave no indication of a fertility impairing effect.

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.

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May produce an allergic reaction.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

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

Toxicity to fish:

LC50 (96 h) 0.2 mg/l, *Cyprinus carpio*

Aquatic invertebrates:

EC50 (48 h) 0.13 mg/l, *Daphnia magna*

Information on: Fenbutatin oxide

Aquatic plants:

EC50 (72 h) > 0.005 mg/l (growth rate), *Selenastrum capricornutum*EC50 (96 h) > 0.333 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

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: fenbutatin oxide (ISO); bis(tris(2-methyl-2-phenylpropyl)tin)oxide

Assessment transport between environmental compartments:

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

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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

Information on: fenbutatin oxide (ISO); bis(tris(2-methyl-2-phenylpropyl)tin)oxide

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Bioaccumulation potential

Assessment bioaccumulation potential:

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

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Information on: fenbutatin oxide (ISO); bis(tris(2-methyl-2-phenylpropyl)tin)oxide

Bioaccumulation potential:

Bioconcentration factor: 730

Accumulation in organisms is not to be expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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:

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 FENBUTATIN OXIDE)

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 FENBUTATIN OXIDE)

Air transport

IATA/ICAO

Hazard class: 9

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Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FENBUTATIN OXIDE)

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

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

Poisons Schedule: Drugs & Poisons, Schedule 6

Hazard symbol(s)

T+	Very toxic.
N	Dangerous for the environment.

R-phrases(s)

R26	Very toxic by inhalation.
R37	Irritating to respiratory system.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S1/2	Keep locked-up and out of reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28.1	After contact with skin, wash immediately with plenty of water and soap.
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: Fenbutatin oxid techn.

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)

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Registration status:

AICS, AU
APVMA 47466

blocked / not listed

16. Other Information

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

T+	Very toxic.
N	Dangerous for the environment.
26	Very toxic by inhalation.
36/38	Irritating to eyes and skin.
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.

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.