

Safety Data Sheet

BASAGRAN FORTE

Revision date : 2012/05/08
Version: 3.2

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(30035200/SDS_CPA_CA/EN)

1. Product and Company Identification

Company

BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

24 Hour Emergency Response Information

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

Molecular formula:	C(10) H(11) N(2) O(3) S Na
Chemical family:	benzothiadiazole
PCP#22006	
Synonyms:	sodium bentazon

2. Hazards Identification

Emergency overview

WARNING:
POISON.
Contains the allergen soy.
Potential skin sensitizer.
DANGER:
Corrosive to eyes.

State of matter: liquid
Colour: red
Odour: almost odourless

Potential health effects

Acute toxicity:

Slightly toxic after single ingestion. Slightly toxic after short-term inhalation. Slightly toxic after short-term skin contact.

Irritation / corrosion:

May cause moderate but temporary irritation to the eyes. May cause slight irritation to the skin.

Sensitization:

Caused skin sensitization in animal studies.

Potential environmental effects

Aquatic toxicity:

Acutely toxic for fish. Acutely toxic for aquatic invertebrates. Acutely toxic for aquatic plants.

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Terrestrial toxicity:
Acutely harmful to terrestrial organisms.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Hazardous ingredients</u>
50723-80-3	44.0 %	bentazon sodium

4. First-Aid Measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air. Assist in breathing if necessary. Consult a physician.

If on skin:
Wash affected areas thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

If in eyes:
Hold eyelids open to facilitate rinsing. Flush with copious amounts of water for at least 15 minutes. If symptoms persist, seek medical advice.

If swallowed:
If person is conscious and can swallow, give two glasses of water. Induce vomiting. Immediate medical attention required.

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

5. Fire-Fighting Measures

Flash point:		Non-flammable.
Autoignition:	480 °C	(Directive 92/69/EEC, A.15)
Lower explosion limit:		not determined
Upper explosion limit:		not determined
Flammability:	does not ignite	(Directive 92/69/EEC, A.12)

Suitable extinguishing media:
foam, dry powder, carbon dioxide, water spray

Hazards during fire-fighting:
carbon monoxide, carbon dioxide, Hydrocarbons, nitrogen oxides, sulfur oxides
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
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. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

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6. Accidental release measures

Personal precautions:

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Cleanup:

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Handling

General advice:

Ensure adequate ventilation. Keep container tightly sealed. Protect against heat. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Storage

General advice:

Keep away from heat. Protect from direct sunlight.

Storage incompatibility:

General advice: Segregate from foods and animal feeds.

8. Exposure Controls and Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified air purifying respirator.

Hand protection:

Chemical resistant protective gloves, Suitable materials, rubber, plastic

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

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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. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	almost odourless	
Odour threshold:	No data available.	
Colour:	red	
pH value:	approx. 7 - 9	(1 %(m), 20 °C)
crystallization temperature:	-12.5 °C	
Boiling point:	approx. 100 °C	(1,013.25 hPa) Information applies to the solvent.
Vapour pressure:		not determined
Density:	approx. 1.19 g/cm ³	(20 °C)
Vapour density:		not determined
Viscosity, dynamic:	approx. 87 mPa.s	(20 °C) (OECD 114)
Solubility in water:		fully soluble

10. Stability and Reactivity

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

Substances to avoid:

acids, bases

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

not determined

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing. (Directive 92/69/EEC, A.17)

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50
Species: rat
Value: 1,089 mg/kg
Moderately toxic.

Inhalation:

Type of value: LC50
Species: rat
Value: > 1.66 mg/l
Exposure time: 4 h
Highly toxic.

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Dermal:

Type of value: LD50
Species: rat (male/female)
Value: > 2,000 mg/kg (OECD Guideline 402)
No mortality was observed.

Irritation / corrosion

Skin:

Species: rabbit
Result: Slightly irritating.
Method: OECD Guideline 404

Eye:

Species: rabbit
Result: Irritating.

Sensitization:

Guinea pig maximization test
Species: guinea pig
Result: Caused skin sensitization in animal studies.
The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Information on: bentazone

Reproductive toxicity

Information on: bentazone
The results of animal studies gave no indication of a fertility impairing effect.

Development:

Information on: bentazone
No teratogenic effects reported.

Other Information:

Misuse can be harmful to health.

12. Ecological Information

Fish

Acute:
EPA 72-1 static
Oncorhynchus mykiss/LC50 (96 h): approx. 2.2 mg/l

Aquatic invertebrates

Acute:
Daphnia magna/EC50 (48 h): approx. 4.91 mg/l

Aquatic plants

Toxicity to aquatic plants:

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OECD Guideline 201 green algae/EC50 (72 h): 2.71 mg/l

OECD guideline 221 static
swollen duckweed/EC50 (7 d): approx.26.6 mg/l

Bioaccumulation

Information on: bentazone

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Environmental mobility:

Information on: bentazone

Assessment transport between environmental compartments:

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Other adverse effects:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

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

Container disposal:

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

TDG

Not classified as a dangerous good under transport regulations

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 FATTY ALCOHOL ALCOXYLATE)

Air transport

IATA/ICAO

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15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / exempt

Crop Protection DSL, CA released / exempt

WHMIS does not apply to this product.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

Recommended use: herbicide

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

BASF NA Product Regulations

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BASF HOTLINE (800) 454 – COPE (2673)

MSDS Prepared on: 2012/05/08

END OF DATA SHEET