

Safety data sheet

BANVEL VM HERBICIDE

Revision date : 2009/03/18
Version: 1.0

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(30464533/SDS_CPA_CA/EN)

1. Substance/preparation and company identification

Company
BASF CANADA
100 Milverton Drive
Mississauga, ON L5R 4H1

24 Hour Emergency Response Information
CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE (800) 454-COPE (2673)

Substance number: 000000064310
Molecular formula: C8 H6 Cl2 O3 . C4 H11 N O2
Chemical family: substituted, aromatic, carboxylic acid
Synonyms: diglycolamine salt of dicamba
PCP No. 29249

2. Hazardous ingredients

Not WHMIS controlled.

3. Hazard identification

Potential health effects

See Product Label for additional precautionary statements.

Acute toxicity:
Harmful if swallowed.

Irritation:
Irritating to eyes, respiratory system and skin.

4. First-aid measures

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. If irritation develops, seek medical attention.

If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:
Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

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5. Fire-fighting measures

Flash point:	> 100 °C	No flash point - Measurement made up to the boiling point.
Flammability:	does not ignite	
Self-ignition temperature:	465 °C	(Directive 92/69/EEC, A.15)

Suitable extinguishing media:

foam, dry extinguishing media, carbon dioxide, water spray

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, Hydrogen chloride, Hydrocarbons, 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:

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:

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.

Cleanup:

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and storage

Handling

General advice:

Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code.

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Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Storage

General advice:

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination.

Storage incompatibility:

General: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Temperature tolerance

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.

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

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours.

Hand protection:

Chemical resistant protective gloves

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.

General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	slightly viscous, liquid	
Odour:	mild	
Odour threshold:	No data available.	
Colour:	blue-green	
pH value:	approx. 8.0	(25 °C) (measured with the undiluted substance)
Freezing point:	approx. < 0 °C	Information applies to the solvent.
Boiling point:	approx. 100 °C	Information applies to the solvent.

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Vapour pressure:	approx. 23.3 hPa	(20 °C)	Information applies to the solvent.
Density:	1.23 g/cm ³ 10.4 lb/USg	(25 °C)	
Partitioning coefficient n-octanol/water (log Pow):			not applicable
Viscosity, dynamic:	4.64 mPa.s	(40 °C)	(OECD 114)
	9.21 mPa.s	(20 °C)	(OECD 114)
Solubility in water:			soluble

10. Stability and reactivity

Conditions to avoid:

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

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Oxidizing properties:

not fire-propagating (Directive 2004/73/EC, A.21)
Not an oxidizer.

11. Toxicological information

Acute toxicity

Oral:

LD50/rat: 3,512 mg/kg

LD50/rat/male/female: 3,512 mg/kg

Inhalation:

LC50/rat: > 5.3 mg/l / 4 h

Dermal:

LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: (FHSA Guideline)
May cause slight irritation to the skin.

Eye irritation :

rabbit:
May cause moderate but temporary irritation to the eyes.

Sensitization:

Skin sensitization test/guinea pig:
Skin sensitizing effects were not observed in animal studies.

12. Ecological information

Environmental fate and transport

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Biodegradation:

Evaluation: Not readily biodegradable (by OECD criteria).

Information on: Sodium Dicamba

Information on: Sodium Dicamba

Environmental toxicity

Acute and prolonged toxicity to fish:

static
sunfish, bluegill/LC50 (96 h): > 1,000 mg/l

Acute toxicity to aquatic invertebrates:

static
Daphnia magna/EC50 (48 h): > 1,000 mg/l

Toxicity to aquatic plants:

green algae/EC50: > 3.7 mg/l

Other terrestrial non-mammals:

bobwhite quail/LC50: > 5,620 ppm

13. Disposal considerations

Waste disposal of substance:

See product label for disposal and recycling instructions.

14. Transport information

Reference Bill of Lading

15. Regulatory information

Federal Regulations

Registration status:

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

Refer to product label for more information.

Local contact information
BASF Canada Product Safety
prod_reg@basf.com

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