

Safety Data Sheet

DYVEL DSP HERBICIDE

Revision date : 2013/04/17

Version: 1.0

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(30592474/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)

PCP # 27856

2. Hazards Identification

Emergency overview

WARNING:
POISON.
Contains the allergen soy.
KEEP OUT OF REACH OF CHILDREN.
Causes eye irritation.
Prolonged or repeated contact may result in dermatitis.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of dusts/mists/vapours.

State of matter: liquid
Colour: amber
Odour: fish-like

Potential health effects**Acute toxicity:**

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion:

Irritating to eyes.

Chronic toxicity:

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.

Potential environmental effects

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Aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Not WHMIS controlled.

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately inhale corticosteroid dose aerosol.

If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician

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

5. Fire-Fighting Measures

Flash point:

Non-flammable.

Flammability:

not highly
flammable

Self-ignition temperature:

not self-igniting

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

Hazards during fire-fighting:

No particular hazards known.

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:

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions:

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

Cleanup:

Dispose of absorbed material in accordance with regulations.

For small amounts: Pick up with suitable absorbent material.

For large amounts: Dike spillage. Pump off product.

7. Handling and Storage

Handling

General advice:

Avoid contact with skin and eyes.

Protection against fire and explosion:

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

Storage

General advice:

Keep in a cool, well-ventilated place. Keep container dry. Keep away from food, drink and animal feeding stuffs.

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.

Components with occupational exposure limits

2,4-D	OSHA	PEL 10 mg/m ³ ;
	ACGIH	TWA value 10 mg/m ³ ;

Advice on system design:

Local exhaust ventilation required.

Personal protective equipment

Respiratory protection:

Breathing protection if gases/vapours are formed.

Hand protection:

Chemical resistant protective gloves (EN 374)

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Protective coverall and/or impermeable apron and boots as necessary.

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9. Physical and Chemical Properties

Form:	liquid	
Odour:	fish-like	
Odour threshold:	No data available.	
Colour:	amber	
pH value:	8 - 10	
Freezing point:	-5 °C	
Boiling point:	101 °C	
Vapour pressure:	approx. 23 hPa	(20 °C) Information applies to the solvent.
Density:	1.15 - 1.17 g/cm ³	
Vapour density:		not determined
Viscosity, dynamic:	55 cps	(20 °C)
Solubility in water:		soluble
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Conditions to avoid:

No conditions known that should be avoided.
See MSDS section 7 - Handling and storage.

Substances to avoid:

No substances known that should be avoided.

Hazardous reactions:

The product is chemically stable.

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides, amines, chlorides

Thermal decomposition:

not determined

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity

Oral:

Information on: 2,4-D-DMA
Type of value: LD50
Species: rat
Value: > 1,000 mg/kg

Information on: dicamba
Type of value: LD50
Species: rat (male/female)
Value: 1,581 mg/kg

Information on: Aryloxyalkanoic acid

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Type of value: LD50
Species: rat (male/female)
Value: 431 - 1,050 mg/kg

Inhalation:

Information on: 2,4-D-DMA
Type of value: LC50
Species: rat
Value: > 3.5 mg/l

Information on: Dicamba
Type of value: LC50
Species: rat
Value: > 5.3 mg/l

Information on: mecoprop-P
Type of value: LC50
Species: rat (male/female)
Value: > 5.6 mg/l
Exposure time: 4 h

Dermal:

Information on: 2,4-D-DMA
Type of value: LD50
Species: rabbit
Value: > 2,000 mg/kg

Information on: Dicamba
Type of value: LD50
Species: rat
Value: > 2,000 mg/kg

Information on: mecoprop-P
Type of value: LD50
Species: rat (male/female)
Value: > 4,000 mg/kg

Irritation / corrosion:

Skin:

Information on: 2,4-D-DMA
Species: rabbit
Result: Slightly irritating.

Information on: dicamba
Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

Information on: Aryloxyalkanoic acid
Species: rabbit
Result: non-irritant

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Eye:

Information on: 2,4-D-DMA
Species: rabbit
Result: Severely irritating.

Information on: dicamba
Species: rabbit
Result: Risk of serious damage to eyes.

Information on: Aryloxyalkanoic acid
Species: rabbit
Result: Severely irritating.

Sensitization:

Information on: 2,4-D-DMA

Species: guinea pig
Result: Skin sensitizing effects were not observed in animal studies.

Information on: dicamba
Guinea pig maximization test
Species: guinea pig
Result: Non-sensitizing.
Method: OECD Guideline 406

Information on: Aryloxyalkanoic acid
Buehler test
Species: guinea pig
Result: Skin sensitizing effects were not observed in animal studies.

Genetic toxicity

Information on: 2,4-D-DMA
Most of the results from the available studies show no evidence of a mutagenic effect.

Information on: dicamba

Information on: Aryloxyalkanoic acid
The substance was not mutagenic in bacteria.

Carcinogenicity

Information on: 2,4-D-DMA
The substance is not considered to pose a carcinogenic risk at low human exposure levels.

Information on: dicamba
In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.

Information on: Aryloxyalkanoic acid

Reproductive toxicity

Information on: 2,4-D-DMA
The results of animal studies gave no indication of a fertility impairing effect.

Information on: dicamba
Information on: Aryloxyalkanoic acid

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Development:

Information on: 2,4-D-DMA

The data available for an assessment of the effect of the substance on developmental toxicity are not sufficient for a proper evaluation.

Information on: dicamba

Information on: Aryloxyalkanoic acid

Other Information:

Misuse can be harmful to health.

12. Ecological Information

Fish

Information on: 2,4-D-DMA

Acute:

Lepomis macrochirus/LC50 (96 h): 524 mg/l

Oncorhynchus mykiss/LC50 (96 h): 250 mg/l

Information on: dicamba

Acute:

Oncorhynchus mykiss/LC50 (96 h): > 100 mg/l

Information on: Aryloxyalkanoic acid

Acute:

Lepomis macrochirus/LC50 (96 h): 147 - 215 mg/l

Aquatic invertebrates

Information on: 2,4-D-DMA

Acute:

Daphnia magna/EC50 (48 h): 184 mg/l

Information on: dicamba

Acute:

Daphnia magna/EC50 (48 h): 110.7 mg/l

Information on: Aryloxyalkanoic acid

Acute:

Daphnia magna/EC50 (48 h): > 91 mg/l

Aquatic plants

Information on: 2,4-D-DMA

Toxicity to aquatic plants:

swollen duckweed/EC50 (336 h): 0.58 mg/l

Information on: dicamba

Toxicity to aquatic plants:

green algae/EC50 (120 h): 269 mg/l

green algae/EC50 (120 h): > 3.7 mg/l

static

swollen duckweed/EC50 (14 d): 3.25 mg/l

static

swollen duckweed/No observed effect concentration (14 d): 0.2 mg/l

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Information on: Aryloxyalkanoic acid
Toxicity to aquatic plants:
green algae/EC50 (72 h): > 270 mg/l

Readily biodegradable (according to OECD criteria).
Not readily biodegradable (by OECD criteria).
Not readily biodegradable (by OECD criteria).

Other adverse effects:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Dispose of in a licensed facility. Observe all local regulations.

Container disposal:

Do not reuse empty containers. Refer to manufacturer/supplier for information on recovery/recycling.

14. Transport Information

Reference Bill of Lading

15. Regulatory Information

Federal Regulations

Registration status:

Crop Protection DSL, CA released / exempt

Chemical DSL, CA released; restriction on quantity / not listed

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.

SDS Prepared by:

BASF NA Product Regulations

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SDS Prepared on: 2013/04/17

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