



MSDS Number: 00000000272

BUCTRIL M

MSDS Version 1.3

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BUCTRIL M
Chemical Name
Synonym
MSDS Number 272
Chemical Family
Chemical Formulation
EPA Registration No.
Canadian Registrat. No. 18022

Bayer CropScience
 #100 - 3131 - 114th Avenue SE
 Calgary, AB T2Z 3X2
 Canada

Emergency Number (24 Hours/Day): 1-800-334-7577 Product Information: 1-888-283-6847

Product Use Description Herbicide

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
BROMOXYNIL OCTANOATE	1689-99-2	>=10.0000	<=30.0000
MCPA 2-Ethyl Hexyl Ester	29450-45-1	>=30.0000	<=60.0000
BROMOXYNIL HEPTANOATE	56634-95-8	>=10.0000	<=30.0000

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Harmful if absorbed through the skin. Harmful if inhaled. Harmful if swallowed.
Caution: Combustible.

Physical State liquid

Odor AROMATIC SOLVENT

Routes of Exposure Absorption through skin. Inhalation. Oral.

Immediate Effects
Eye Causes severe eye irritation.

Material Safety Data Sheet

MSDS Number: 00000000272
MSDS Version 1.3

BUCTRIL M

Skin	Causes moderate skin irritation. Harmful if absorbed through the skin.
Ingestion	May be fatal if swallowed. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and central nervous system depression. Aspiration can be a hazard if this material is swallowed.
Inhalation	Excessive inhalation causes headache, dizziness, nausea and incoordination. May be harmful if inhaled.
Chronic or Delayed Long-Term	Dermatitis CARCINOGENIC: The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen, limited evidence for carcinogenicity in humans. TERATOGENIC: EPA has classified bromoxynil as a class C oncogen. Based upon the results of rat and rabbit teratogenicity studies, bromoxynil phenol is considered to be a developmental toxicant. Women of childbearing age should be particularly careful when handling this product to avoid ingestion and skin contact. This product contains bromoxynil ester.
Medical Conditions Aggravated by Exposure	Central nervous system disorders. Liver, kidney. Repeated overexposure to phenoxy herbicides may cause liver, kidney, gastrointestinal and muscular effects. Rare cases of peripheral nerve damage have been reported, but extensive animal studies have failed to substantiate these observations, even at high doses for prolonged periods.

SECTION 4. FIRST AID MEASURES

Eye	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Skin	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and laundry before reuse.
Ingestion	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Note to Physician	No specific antidote. Treatment based on sound judgment of physician and individual reactions of patient.

Material Safety Data Sheet

BUCTRIL M

MSDS Number: 00000000272
MSDS Version 1.3

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	63 °C / 145 °F Flammable: Combustible
Auto Ignition Temperature	443 °C / 829 °F
Upper Flammable Limit	7 %(V)
Suitable Extinguishing Media	Carbon Dioxide, Dry Chemicals, Foam Water fog, carbon dioxide, foam, dry chemical.
Fire Fighting Instructions	Containers can build up pressure if exposed to heat (fire). Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.
Dust Explosion Class	SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO SENSITIVITY TO STATIC DISCHARGE: Sensitivity to static discharge is expected; material has a flash point below 93°C.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Land Spill or Leaks	Remove sources of ignition. Absorb spills on inert material such as perlite, vermiculite, sand or dirt, then wet with water. Place in double polyethylene bags. Isolate from other waste materials. Avoid runoff to natural waters.
----------------------------	---

SECTION 7. HANDLING AND STORAGE

Handling Procedures	Keep container closed when not in use. Store in a cool, dry location away from incompatible materials. Avoid contact with skin and eyes. Do not inhale vapors. Do not reuse this container. Keep away from food and feed products.
----------------------------	---

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Exhaust ventilation. Eyewash stations. Showers.
General Protection	RESPIRATORY PROTECTION EQUIPMENT Use an approved pesticide respirator if ventilation is not adequate or exposure to sprays, mists vapours, or dusts is likely. PROTECTIVE GLOVES: Nitrile gloves. EYE AND FACE PROTECTION: Monogoggles. OTHER PROTECTIVE EQUIPMENT:

Material Safety Data Sheet

BUCTRIL M

MSDS Number: 000000000272

MSDS Version 1.3

Long sleeves
VENTILATION:
Use only in well ventilated area.

Exposure Limits

ACGIH TLV
Bromoxynil octanoate
TWA: N/E
STEL: N/E
MCPA 2-Ethyl Hexyl Ester
TWA: N/E
STEL: N/E
Bromoxynil heptanoate
TWA: N/E
STEL: N/E

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	liquid
Odor	AROMATIC SOLVENT
Odor Threshold	(PPM): NA
pH	at NA
Vapor Pressure	3 mmHg at 37 °C
Specific Gravity	1.15(WATER=1)
Density	1.15 at 25 °C
Boiling Point	149 °C
Melting/Freezing Point	FREEZING POINT: <0 °C MELTING POINT: NAp
Solubility (in water)	at 20 °C emulsifiable

Material Safety Data Sheet

MSDS Number: 000000000272

MSDS Version 1.3

BUCTRIL M

Other Information COLOUR: BROWN
EVAP. RATE (BUTYL ACETATE=1): NA

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable

Conditions to Avoid Keep away from heat, sparks and flame.

Incompatibility Avoid contact with oxidizing agents, acids and bases.

Hazardous Products of Decomposition Carbon dioxide. Carbon monoxide. Oxides of nitrogen. Hydrogen bromide.

Hazardous Polymerization (Conditions to avoid) Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50(mg/kg): 368 (RAT) 368 (RAT)

Acute Dermal Toxicity LD50(mg/kg): >2000(RBT)

Acute Inhalation Toxicity LC50(mg/l): 2.46

Tested as moderately irritating to the skin (rbt) and severely irritating to the eye (rbt).

Assessment Carcinogenicity

The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen, limited evidence for carcinogenicity in humans.

ACGIH

None

NTP

None

IARC

None

OSHA

None

Teratogenicity EPA has classified bromoxynil as a class C oncogen. Based upon the results of rat and rabbit teratogenicity studies, bromoxynil phenol is considered to be a developmental toxicant. Women of childbearing age should be particularly careful when handling this product to avoid ingestion and skin contact. This product contains bromoxynil ester.

Material Safety Data Sheet

MSDS Number: 00000000272
MSDS Version 1.3

BUCTRIL M

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information Aquatic toxicity: LC50(Rainbow trout): 0.05 mg/l (100%Bromoxynil octanoate).
Environmental Fate No data at this time.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Disposal should be made in accordance with federal, provincial and local regulations.

RCRA Classification

SECTION 14. TRANSPORT INFORMATION

PESTICIDE, LIQUID, TOXIC, N.O.S. (Bromoxynil), Class 6.1, P.G. III
UN/NA NUMBER: UN# 2902

Marine Pollutant

SECTION 15. REGULATORY INFORMATION

This product is registered under the Pest Control Act.
PCP # 18022
WHMIS HAZARD CLASS: B3 COMBUSTIBLE LIQUID
SD1B TOXIC MATERIAL
SD2B TOXIC MATERIALS
WHMIS TRADE SECRET:
Exempt
CANADIAN INVENTORY:
This product is currently exempt from CEPA.
HAZARD RATING SYSTEMS
HMIS: FLAMMABILITY 3 , REACTIVITY 0 , HEALTH 2
NFPA: FLAMMABILITY 3 , REACTIVITY 0 , HEALTH 2

US Federal Regulations

EPA Registration No.

TSCA list

BROMOXYNIL OCTANOATE 1689-99-2

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

None

US States Regulatory Reporting

CA Prop65

Material Safety Data Sheet

MSDS Number: 00000000272
MSDS Version 1.3

BUCTRIL M

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State right-to-know ingredients

None

Canadian Regulations

Canadian Registrat. No. 18022
Canadian Domestic Substance List
None

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations

EU Classification

BROMOXYNIL OCTANOATE	1689-99-2	Harmful Dangerous for the environment
R Phrases		Harmful in contact with skin and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of harm to the unborn child.
S Phrases		Keep out of the reach of children. Wear suitable protective clothing and gloves. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

European Inventory of Existing Commercial Substances (EINECS)

BROMOXYNIL OCTANOATE	1689-99-2
MCPA 2-Ethyl Hexyl Ester	29450-45-1
BROMOXYNIL HEPTANOATE	56634-95-8

SECTION 16. OTHER INFORMATION

Prepared by: The HSE Department of Bayer CropScience
Phone: (306) 721-0310

Release Date: 01.30.09

Material Safety Data Sheet

BUCTRIL M

MSDS Number: 00000000272

MSDS Version 1.3

This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer AG. Bayer CropScience