# Bayer CropScience



MSDS Number: 000000000026

# **BUCTRIL® BRAND + ATRAZINE HERBICIDE**

MSDS Version 3.1

#### **SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

Product Name BUCTRIL® BRAND + ATRAZINE HERBICIDE

Chemical Name Bromoxynil Octanoate; Atrazine

Synonym

MSDS Number 26

Chemical Family

Chemical Formulation

**EPA Registration No.** 264-477

Canadian Registrat. No.

Bayer CropScience 2 T.W. Alexander Drive

Research Triangle PK, NC 27709

USA

For Product Use Information: (866)-992-2937 Monday through Friday(CRLF) 8:00AM-4:30PM(CRLF) For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day(CRLF) For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

**Product Use Description** FIFRA regulated use only.

### **SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	CAS No.	Concentration % by Weight	
		Minimum	Maximum
BROMOXYNIL OCTANOATE	1689-99-2	15.7400	
ATRAZINE	1912-24-9	21.6200	
Trimethyl benzene (1,2,4)	95-63-6	2.9000	
Xylene	1330-20-7	2.2000	
Ethyl benzene	100-41-4		
1,2-Propylene glycol	57-55-6		
Other ingredients (Trade secret)			

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#### **SECTION 3. HAZARDS IDENTIFICATION**

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

Emergency Overview Caution. Harmful if swallowed, inhaled or absorbed through the skin.

Combustible liquid.

Physical State liquid

**Odor** aromatic

**Appearance** tan

**Immediate Effects** 

**Eye** Causes redness, tearing. Vapors and mists can cause irritation.

**Skin** Harmful if absorbed through skin. Non-irritating.

**Ingestion** Harmful if ingested. May cause nausea, vomiting, abdominal pain, weakness of

arms and/or legs. dizziness, loss of coordination.

**Inhalation** Harmful if inhaled. May cause upper respiratory tract irritation, coughing,

wheezing, nausea, headache, depression.

**Chronic or Delayed** 

Long-Term

This product contains ingredients that are considered to be probable or suspected human carcinogens (See Section 11 - Chronic). Prolonged contact may cause chronic dermatitis, reproductive disorders, developmental problems.

Medical Conditions
Aggravated by Exposure

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin

disease.

#### **SECTION 4. FIRST AID MEASURES**

Eye Hold eyelids open and flush with a steady, gentle stream of water for at least 15

minutes. Seek medical attention.

Skin In case of contact, immediately wash with plenty of soap and water for at least

15 minutes. Seek medical attention. Remove contaminated clothing and shoes while washing. Clean contaminated clothing and shoes before re-use or discard

if they cannot be thoroughly cleaned.

**Ingestion** If victim is conscious and alert, give 2-3 glasses of water. Do not induce

vomiting. Material may enter lungs and cause severe damage. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Persons attending the victim should

avoid direct contact with heavily contaminated clothing and vomitus.

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**Inhalation** Remove victim from immediate source of exposure and assure that the victim is

breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical

attention.

Note to Physician All treatment should be based on observed signs and symptoms of distress in

the patient. Consideration should be given to the possibility that overexposure to

materials other than this product may have occurred.

Treat symptomatically. No specific antidote available.

#### **SECTION 5. FIRE FIGHTING MEASURES**

Flash Point 55 °C / 131 °F

Flammability Class: FLAMMABLE. Method Used: Tagliabue Closed Cup

Lower Flammable Limit Data

Upper Flammable Limit No Data

Fire and Explosion

**Hazards** 

Product will burn under fire conditions. Under fire conditions, toxic, corrosive fumes are emitted. Vapors may travel a considerable distance to a source of

ignition and flash back along vapor trail.

Suitable Extinguishing

Media

Small Fires:, dry chemical, carbon dioxide (CO2)

Large Fires:, foam, water spray

Fire Fighting Instructions

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate residents who are downwind of fire. Dike area to prevent runoff and contamination of water sources. Dispose of fire

control water later.

Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### **General and Disposal**

Evacuation Procedures and Safety: Wear appropriate gear for the situation. See Personal Protection information in Section 8. Eliminate all sources of ignitions until the area is determined to be free from explosion of fire hazards.

Cleanup and Disposal of Spill: Decontaminate tools and equipment following cleanup. Pump any free liquid into an appropriate closed container. Absorb

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washings and add to container.

Land Spill or Leaks

Containment of Spill: Follow procedure under Cleanup and Disposal of Spill.

Environmental and Regulatory Reporting: Do not flush to drain. If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterway.

#### **SECTION 7. HANDLING AND STORAGE**

**Handling Procedures** Do not breathe vapors and mists. Do not get on skin or in eyes. Do not ingest.

Storing Procedures Store in an area that is away from ignition sources. Store in an area away from

food, feedstuffs, fertilizers and seed.

Work/Hygienic Procedures

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

Wash exposed skin promptly to remove accidental splashes of contact with this

material.

Min/Max Storage Temperatures Not Available

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#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** Where engineering controls are indicated by use conditions of a potential for

excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust

ventilation at the point of generation.

environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this

material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily

accessible to the work area.

**Body Protection**Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected with regard of use conditions and exposure

potential. Consideration must be given both to durability as well as permeation

resistance.

Respiratory Protection When respirators are required, select NIOSH/MSHA approved equipment based

on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying

(half-mask/full-face) respirator with cartridge/canister approved for use against pesticides.

Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a

self-contained breathing apparatus unit.

General Protection

These recommendations provide general guidance for handling this product.

Because specific work environments and material handling practices vary, safety

procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal

Considerations.

Assistance with selection, use and maintenance of worker protection equipment

is generally available from equipment manufacturers.

#### **Exposure Limits**

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ATRAZINE	1912-24-9	ACGIH	TWA		5 mg/m3
		NIOSH	REL		5 mg/m3
		OSHA Z1A	TWA		5 mg/m3
		US CA OEL	TWA PEL		5 mg/m3
Trimethyl benzene (1,2,4)	95-63-6	NIOSH	REL	25 ppm	125 mg/m3
		ACGIH OSHA Z1A	TWA TWA	25 ppm	123 mg/m3 125 mg/m3
		US CA OEL	TWA PEL	25 ppm _ 25 ppm	125 mg/m3
		ACGIH	TWATEL	25 ρριτι	25 ppm
Xylene	1330-20-7	OSHA Z1	PEL	100 ppm	435 mg/m3
Aylene	1000 20 1	OSHA Z1A	TWA	100 ppm	435 mg/m3
		OSHA Z1A	STEL	150 ppm	655 mg/m3
		US CA OEL	TWA PEL		435 mg/m3
		US CA OEL	Ceiling		300 ppm
		US CA OEL	STEL	150 ppm	655 mg/m3
		NIOSH	REL	100 ppm	435 mg/m3
		NIOSH	STEL	150 ppm	655 mg/m3
		NIOSH	REL	100 ppm	435 mg/m3
		NIOSH	STEL	150 ppm	655 mg/m3
		NIOSH	REL	100 ppm	435 mg/m3
		NIOSH	STEL	150 ppm	655 mg/m3
		ACGIH	TWA		100 ppm
		ACGIH	STEL		150 ppm
Ethyl benzene	100-41-4	ACGIH	TWA		100 ppm
		ACGIH	STEL		125 ppm
		NIOSH	REL	100 ppm	435 mg/m3
		NIOSH	STEL	125 ppm	545 mg/m3
		OSHA Z1	PEL	100 ppm	435 mg/m3
		OSHA Z1A	TWA	100 ppm	435 mg/m3
		OSHA Z1A	STEL	125 ppm	545 mg/m3
		US CA OEL	TWA PEL	• •	435 mg/m3
1.2 Propulance alveel	E7 EE 6	US CA OEL	STEL	125 ppm	545 mg/m3
1,2-Propylene glycol	57-55-6	WEEL	TWA	Total venez and several	50 ppm
		Form of E WEEL	TWA	Total vapor and aerosol.	10 mg/m3
		Form of E		Aerosol.	10 mg/ms
		ACGIH	TWA	Aerosoi.	3 mg/m3
		Form of E		Respirable.	3 mg/ms
		US CA OEL	TWA PEL		5 mg/m3
		Form of E		Respirable fraction.	o mg/mo
		US CA OEL	TWA PEL	•	10 mg/m3
		Form of E		Total dust.	10 mg/mg
		US CA OEL	TWA PEL		5 mg/m3
		Form of E		Respirable fraction.	3
		US CA OEL	TWA PEL		5 mg/m3
		Form of E	xposure	Respirable fraction.	· ·
		US CA OEL	TWA PEL	•	10 mg/m3
		Form of E	•	Total dust.	
		US CA OEL	TWA PEL	-	10 mg/m3

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Form of Exposure

Total dust.

ACGIH TWA

10 mg/m3

Form of Exposure

Inhalable particulate.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** tan

Physical State liquid

**Odor** aromatic

**pH** 5 - 7 at 100 wt/wt%.

Vapor Pressure Not available

Vapor Density (air = 1) Not available

Specific Gravity 1.11 at 20 °C

**Boiling Point** 96 - 98 °C

at 760 mmHg

Melting/Freezing Point Not available

Solubility (in water) slightly soluble

Other Information Physical and Chemical properties here represent typical properties of this

product. Contact the business area using the Product Information phone number

in Section 1 for its exact specifications.

#### **SECTION 10. STABILITY AND REACTIVITY**

Chemical Stability This material is stable under normal handling and storage conditions described

in Section 7.

Conditions to Avoid elevated temperatures

**Incompatibility** strong bases

strong oxidizing agents

**Hazardous Products of** 

Decomposition

Decomposition Type: thermal

hydrogen bromide

hydrogen cyanide (hydrocyanic acid)

oxides of nitrogen

oxides of carbon acetonitrile

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Hazardous Polymerization

not applicable

(Conditions to avoid)

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity Rat: LD50: 3,600 mg/kg

Acute Dermal Toxicity Rabbit: LD50: > 2,000 mg/kg

Acute Inhalation Toxicity Rat: LC50: > 3.8 mg/l 4 h

Acute Respiratory Irritation: No test data found for product.

**Skin Irritation** Rabbit: Non-irritating to minimally irritating.

**Eye Irritation** Rabbit: Moderately irritating

Chronic Toxicity BROMOXYNIL COMPOUNDS: EPA has classified Bromoxynil as a Class C

carcinogen. 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. Although three in vitro genetic toxicity studies were positive for Bromoxynil phenol, four additional in vitro studies and two in vivo studies were negative. Therefore, the weight of evidence indicates that

Bromoxynil phenol does not produce genetic toxicity.

#### **Assessment Carcinogenicity**

**ACGIH** 

ATRAZINE 1912-24-9 Group A4

Xylene 1330-20-7 Group A4

Ethyl benzene 100-41-4 Group A3

NTP None IARC

ATRAZINE 1912-24-9 3 Xylene 1330-20-7 3 Ethyl benzene 100-41-4 2B

OSHA None

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecological Information** For ecotoxicological data call the product information phone number listed in

Section 1.

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For chemical fate data call the product information phone number listed in

Section 1.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

General Disposal Guidance

**Environmental Fate** 

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

**Container Disposal** 

Any container or equipment used should be decontaminated immediately after use. Consult state and local regulations regarding the proper disposal of

container.

EPA Hazardous Waste - Yes

**RCRA Classification** 

1330-20-7 Xylene

US. EPA Resource Conservation and Recovery Act (RCRA) U List of Hazardous

Wastes (40 CFR 261.33(f) and 40 CFR 302 [CERCLA]): U239

#### **SECTION 14. TRANSPORT INFORMATION**

For Transportation Regulatory Information call the Product Information phone number in Section 1.

#### **SECTION 15. REGULATORY INFORMATION**

**US Federal Regulations** 

EPA Registration No. 264-477

TSCA list

BROMOXYNIL OCTANOATE 1689-99-2
ATRAZINE 1912-24-9
Trimethyl benzene (1,2,4) 95-63-6
Xylene 1330-20-7
Ethyl benzene 100-41-4
1,2-Propylene glycol 57-55-6

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting BROMOXYNIL OCTANOATE 1689-99-2

1.0%

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ATRAZINE	1912-24-9	1.0%
Trimethyl benzene (1,2,4)	95-63-6	1.0%
Xylene	1330-20-7	1.0%
Ethyl benzene	100-41-4	1.0%

#### **US States Regulatory Reporting**

CA Prop65

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

BROMOXYNIL OCTANOATE	1689-99-2	NJ
ATRAZINE	1912-24-9	CA, IL, MN, NJ, PA, RI
Trimethyl benzene (1,2,4)	95-63-6	CA, IL, MN, NJ, PA, RI
Xylene	1330-20-7	CA, CT, IL, MI, MN, NJ, PA, RI
Ethyl benzene	100-41-4	CA, CT, IL, MN, NJ, PA, RI
1,2-Propylene glycol	57-55-6	PA, RI

#### **Canadian Regulations**

Canadian Registrat. No.

**Canadian Domestic Substance List** 

ATRAZINE	1912-24-9
Trimethyl benzene (1,2,4)	95-63-6
Xylene	1330-20-7
Ethyl benzene	100-41-4
1,2-Propylene glycol	57-55-6

#### Environmental

CERCLA

Xylene	1330-20-7	100 lbs
Ethyl benzene	100-41-4	1,000 lbs

**Clean Water Section 307 Priority Pollutants** 

Ethyl benzene 100-41-4 **Safe Drinking Water Act Maximum Contaminant Levels**ATRAZINE 1912-24-9

Xylene 1330-20-7

Ethyl benzene 100-41-4

#### **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

disposed of de fideated waster. Attend foredes to

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environment. Refer to special instructions/safety data sheets.

ATRAZINE 1912-24-9 Harmful Dangerous for the

environment

R Phrases May cause sensitization by skin contact. Harmful: danger of

serious damage to health by prolonged exposure if

swallowed. Very toxic to aquatic organisms, may cause long-

term adverse effects in the aquatic environment.

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.

Xylene 1330-20-7 Harmful

R Phrases Flammable. Harmful by inhalation and in contact with skin.

Irritating to skin.

S Phrases Keep out of the reach of children. Avoid contact with the

eyes.

**European Inventory of Existing Commercial Substances (EINECS)** 

 BROMOXYNIL OCTANOATE
 1689-99-2

 ATRAZINE
 1912-24-9

 Trimethyl benzene (1,2,4)
 95-63-6

 Xylene
 1330-20-7

 Ethyl benzene
 100-41-4

 1,2-Propylene glycol
 57-55-6

#### **SECTION 16. OTHER INFORMATION**

	Health	Flammability	Reactivity	Others	
HMIS	2	2	0		
NFPA	2	2	0		

Reason for Revisions: Company name change.

Print Date: 12/16/2002

Supersedes MSDS, which is older than: 12/12/2002

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