

**BALANCE[®] PRO HERBICIDE**

MSDS Version 2.1

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BALANCE[®] PRO HERBICIDE
Chemical Name 5-Cyclopropyl-4-(2-Methylsulfonyl-4-Trifluoromethylbenzoyl) Isoxazole
Synonym
MSDS Number 15
Chemical Family
Chemical Formulation C15H12F3NO4S
EPA Registration No. 264-600
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

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>
ISOXAFLUTOLE	141112-29-0	40.5000	
1,2-Propylene glycol	57-55-6		
ATTAPULGITE CLAY	12174-11-7		
Other ingredients (Trade secret)			

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.

Physical State liquid
Odor slight
Appearance beige
Immediate Effects
Eye Irritant.

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Skin	Slightly irritating.
Ingestion	Harmful if ingested.
Inhalation	Harmful if inhaled.
Chronic or Delayed Long-Term	This product contains ingredients that are considered to be probable or suspected human carcinogens (See Section 11 - Chronic).
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 eye open and rinse slowly and gently with water for 15-20 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.
Skin	In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.
Ingestion	If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.
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	<p>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.</p> <p>Treat symptomatically. No specific antidote available.</p>

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	Not applicable
Fire and Explosion Hazards	Like all organic and most dry chemicals, as a powder or dust, this product (when mixed with air in critical proportions and in the presence of an ignition source) may present an explosion hazard.
Suitable Extinguishing Media	dry chemical, foam, water, carbon dioxide (CO ₂)
Fire Fighting	Firefighters should wear NIOSH/MSHA approved self-contained breathing

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Instructions

apparatus and full protective clothing. Keep upwind. Keep out of low areas. 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.

Cleanup and Disposal of Spill: Sweep or vacuum up and place in an appropriate closed container (see Section 7: Handling and Storage). Decontaminate tools and equipment following cleanup. Clean up residual material as appropriate.

Land Spill or Leaks

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

Environmental and Regulatory Reporting: 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

Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Do not ingest. Read label carefully before use.

Storing Procedures

Store in original container. Store in an area that is dry and well-ventilated. 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.

Eye/Face Protection Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Body Protection Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). 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

1,2-Propylene glycol	57-55-6	WEEL	TWA	50 ppm
		Form of Exposure	Total vapor and aerosol.	

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WEEL	TWA		10 mg/m3
Form of Exposure	Aerosol.		
ACGIH	TWA		3 mg/m3
Form of Exposure	Respirable.		
US CA OEL	TWA PEL		5 mg/m3
Form of Exposure	Respirable fraction.		
US CA OEL	TWA PEL		10 mg/m3
Form of Exposure	Total dust.		
US CA OEL	TWA PEL		5 mg/m3
Form of Exposure	Respirable fraction.		
US CA OEL	TWA PEL		5 mg/m3
Form of Exposure	Respirable fraction.		
US CA OEL	TWA PEL		10 mg/m3
Form of Exposure	Total dust.		
US CA OEL	TWA PEL		10 mg/m3
Form of Exposure	Total dust.		
ACGIH	TWA		10 mg/m3
Form of Exposure	Inhalable particulate.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	beige
Physical State	liquid
Odor	slight
pH	5 - 7 at 1 wt/wt%.
Vapor Pressure	< 0.01 mmHg at 25 °C
Vapor Density (air = 1)	Not available
Specific Gravity	1.198 at 25 °C
Boiling Point	Not available
Melting/Freezing Point	Not available
Solubility (in water)	dispersible
Molecular Weight	359.3 g/mol

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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	None known
Incompatibility	None known
Hazardous Products of Decomposition	Decomposition Type: thermal oxides of nitrogen carbon oxides
Hazardous Polymerization (Conditions to avoid)	not applicable

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Rat: LD50: > 2,000 mg/kg
Acute Dermal Toxicity	Rabbit: LD50: > 2,000 mg/kg
Acute Inhalation Toxicity	Rat: LC50: > 4.39 mg/l 4 h Acute Respiratory Irritation: No test data found for product.
Skin Irritation	Rabbit: Slightly irritating
Eye Irritation	Rabbit: Moderately irritating
Sensitization	Guinea pig: Non-sensitizing
Chronic Toxicity	Isoxaflutole is not mutagenic, teratogenic or a reproductive toxin. In long-term feeding studies in rodents, liver tumors were observed in rats and mice and thyroid tumors in rats. These effects were only seen at the highest dose tested (the Maximum Tolerated Dose) which was far higher than any exposure that could be envisaged for humans. Thus, isoxaflutole presents a negligible, if any, increased cancer risk for humans.
Assessment Carcinogenicity ACGIH	None

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NTP

None

IARC

ATTAPULGITE CLAY

12174-11-7

2B

ATTAPULGITE CLAY

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3

OSHA

None

SECTION 12. ECOLOGICAL INFORMATION

Ecological Information For ecotoxicological data call the product information phone number listed in Section 1.

Environmental Fate For chemical fate data call the product information phone number listed in Section 1.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance 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.

EPA Hazardous Waste - No

RCRA Classification Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

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

SECTION 15. REGULATORY INFORMATION

US Federal

EPA Registration No.

264-600

TSCA list

1,2-Propylene glycol

57-55-6

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

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SARA Title III - section 313 - toxic chemical release reporting

None

US States Regulatory

CA Prop65

This product contains a chemical known to the state of California to cause cancer.

ISOXAFLUTOLE

141112-29-0

This product contains a chemical known to the state of California to cause cancer.

ATTAPULGITE
CLAY

12174-11-7

US State right-to-know ingredients

1,2-Propylene glycol

57-55-6

PA, RI

ATTAPULGITE CLAY

12174-11-7

CA

Canadian Regulations

Canadian Registrat. No.

Canadian Domestic Substance List

1,2-Propylene glycol

57-55-6

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations

EU Classification

ISOXAFLUTOLE

141112-29-0

Harmful Dangerous for the
environment

R Phrases

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)

1,2-Propylene glycol

57-55-6

SECTION 16. OTHER INFORMATION

Reason for Revisions: Company name change.

Print Date: 12/16/2002

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

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