



Material Safety Data Sheet

BAYER ADVANCED BRUSH KILLER PLUS READY-TO-USE

MSDS Number: 102000013153
 MSDS Version 1.1
 Revision Date: 08/10/2005

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BAYER ADVANCED BRUSH KILLER PLUS READY-TO-USE
MSDS Number 102000013153
EPA Registration No. 72155-22
Product Use A selective systemic herbicide for use to kill tough brushy & viney weeds such as Poison Ivy, Poison Oak, Blackberries and Kudzu.

Bayer Environmental Science
 2 T.W. Alexander Drive
 Research Triangle PK, NC 27709
 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call 1-800-334-7577 (24 hours/day)
 For Product Information call 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Triclopyr, triethylamine salt	57213-69-1	0.80

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. Avoid breathing spray mist. Avoid contact with skin, eyes and clothing. Moderate eye irritation

Physical State liquid

Appearance colourless to light yellow

Routes of Exposure Eye contact, Inhalation, Skin contact, Skin Absorption

Immediate Effects

Eye Do not get in eyes. Moderate eye irritation

Skin Harmful if absorbed through skin. Avoid contact with skin and clothing.



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Ingestion Harmful if swallowed. Do not take internally.
Inhalation Harmful if inhaled. Avoid contact or inhalation of spray mist.

SECTION 4. FIRST AID MEASURES

General Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Take off all contaminated clothing immediately. Rinse immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.

Ingestion Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Inhalation Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Notes to Physician Treatment There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point not applicable

Suitable Extinguishing Media water, foam, carbon dioxide (CO2)

Fire Fighting Instructions Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.

Wear self-contained breathing apparatus and protective suit.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
Methods for Cleaning Up	Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Additional Advice	Use personal protective equipment. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

SECTION 7. HANDLING AND STORAGE

Storing Procedures	Store in a cool, dry secured storage area. Store in original container and out of the reach of children, preferably in a locked storage area. Do not freeze.
Min/Max Storage Temperatures	Do not transport or store below 0 °C / 32 °F 30 day average temperature not to exceed 38 °C / 100 °F.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection	<p>There are no known hazards associated with this product when used according to the label directions. At the same time, the following guidelines should be used.</p> <p>Avoid inhalation of vapour or mist. Avoid contact with skin and eyes.</p> <p>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.</p> <p>Do not allow children and pets to enter the treated area until it has dried.</p>
Hand Protection	rubber gloves
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	colourless to light yellow
Physical State	liquid
pH	6.5 - 8.0



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Density ca. 1.005 g/cm³ at 20 °C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity studies have been bridged from a similar formulation containing a higher percentage of the active ingredient, triclopyr. The non-acute information pertains to the technical-grade active ingredient, triclopyr.

Acute Oral Toxicity male rat: LD50: 3,743 mg/kg
female rat: LD50: 4,444 mg/kg

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

Acute Inhalation Toxicity rat: LC50: > 5.2 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.
(actual)

rat: LC50: > 20.8 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50.
(actual)

Skin Irritation No skin irritation

Eye Irritation May cause moderate irritation with temporary corneal injury.

Sensitization guinea pig: Non-sensitizing

Chronic Toxicity Long-term dietary exposure to triclopyr caused liver, kidney, adrenal and mammary gland effects when tested in rats, mice and/or dogs.

Assessment Carcinogenicity

EPA classified triclopyr as a Group D chemical (not classifiable as to human carcinogenicity) based on what was considered only marginal responses in the mammary and adrenal glands of rodents, and the absence of additional support from structural analogs or genotoxicity.

ACGIH
None.

NTP
None.



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IARC
None.
OSHA
None.

Reproductive & Developmental Toxicity

REPRODUCTION: Triclopyr was not a reproductive toxicant at non-maternally toxic dose levels in a two-generation study in rats.

DEVELOPMENTAL TOXICITY: Triclopyr is not a primary developmental toxicant in rats and rabbits. Developmental effects were observed at doses that caused maternal toxicity.

Mutagenicity

Triclopyr was non-mutagenic in a battery of in vitro and in vivo mutagenicity studies.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

Do not apply directly to water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Drift or runoff may adversely affect non-target plants. Avoid spray drift. Apply this product only as specified on the label.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow any applicable state or local guidelines. Never place unused product down any indoor or outdoor drain.

Container Disposal

Do not re-use empty containers. Place empty container in trash.

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:
Not regulated for transportation by any mode

FREIGHT CLASSIFICATION:
Compounds Tree or Weedkilling, N.O.I., other than poison, having a density of 20 LBS or greater per cubic foot

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 72155-22



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US Federal Regulations

TSCA list

None.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

Triclopyr, triethylamine salt 57213-69-1 1.0%

US States Regulatory Reporting

CA Prop65

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

Triclopyr, triethylamine salt 57213-69-1 NJ

Canadian Regulations

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

European Inventory of Existing Commercial Substances (EINECS)

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SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 0 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Updated storage temperature in Section 7 and removed bulk density from Section 9.

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

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