

BAYER ADVANCED LLC
1500 Urban Center Dr.
Birmingham, AL 35242

TRANSPORTATION EMERGENCY:

CALL CHEMTREC: (800) 424-9300
 DISTRICT OF COLUMBIA: (202) 483-7616

1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME: BAYER AG Powerforce Kills Weeds Fast Brush Killer Plus Concentrate
PRODUCT CODE: 44050
CHEMICAL NAME: Triclopyr (3,5,6-trichloro-2-pyridinyloxyacetic acid), as the triethylamine salt
PRODUCT USE: Consumer

2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRATION (%)
***** HAZARDOUS INGREDIENTS *****		
Triclopyr, triethylamine salt		
57213-69-1	OSHA : Not Established ACGIH: Not Established	8.8%

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW CAUTION!

Color: Light purple/pink; **Form:** Liquid; **Odor:** Ammonia-like odor; Harmful if absorbed through skin; Causes eye irritation; Harmful if swallowed.

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY: Eye Contact; Skin Absorption; Skin Contact; Inhalation

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE EFFECTS OF EXPOSURE: Exposure during the labeled use of this product is expected to be minimal. Consumers should refer to the packaging label for proper handling procedures. Based on EPA toxicity categories, this material is mildly toxic by the oral and dermal routes of exposure. In addition, animal studies have shown that this material is moderately irritating the eye and non-irritating to the skin. It is not a skin sensitizer.

CHRONIC EFFECTS OF EXPOSURE: Not Noted

CARCINOGENICITY: The active ingredient did not cause cancer in long-term animal studies. This product contains a small amount of ethanol; epidemiology studies provide evidence that drinking of alcoholic beverages (containing ethanol) is associated with cancer; IARC has classified alcoholic beverages as carcinogenic to humans.

NTP: Not listed

IARC: See above

OSHA: Not regulated

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not Noted

NON-TRANSPORTATION:

BAYER EMERGENCY PHONE: (877) 229-3763
 BAYER INFORMATION PHONE: (877) 229-3724

4. FIRST AID MEASURES:

FIRST AID FOR EYES: 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.

FIRST AID FOR SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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

FIRST AID FOR INGESTION: Call poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

5. FIRE FIGHTING MEASURES:

FLASH POINT: 200°F, 93°C

EXTINGUISHING MEDIA: Water; Alcohol resistant foam; Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Toxic, irritating vapors may be formed or given off if product is involved in fire. Although product is water-based, it has a flash point due to the presence of small amounts of ethanol and triethylamine. Use positive-pressure, self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES: Dike large spills. Keep out of streams and domestic water supplies. Absorb small spills in inert material such as dry sand.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE: Not Noted

SHELF LIFE: Not Noted

SPECIAL SENSITIVITY: Not Noted

HANDLING/STORAGE PRECAUTIONS: See label. Keep out of reach of children. Causes eye irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not contaminate domestic water supplies or water used for irrigation. EXPOSURE GUIDELINE: Ethanol: ACGIH TLV and OSHA PEL = 1000 ppm.

8. PERSONAL PROTECTION:

REQUIRED WORK/HYGIENE PROCEDURES: Exposure during the labeled use of this product is expected to be minimal. Consumers should refer to the packaging label for proper handling procedures. However, if exposure to this product is possible while handling large quantities, transportation spills or other emergencies, the following personal protection is recommended.

EYE PROTECTION REQUIREMENTS: Chemical goggles or safety glasses.

SKIN PROTECTION REQUIREMENTS: Long sleeve shirt and long pants.

VENTILATION REQUIREMENTS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RESPIRATOR REQUIREMENTS: When respiratory protection is necessary, based on the conditions of use, wear a NIOSH-approved air-purifying respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM: Liquid
COLOR: Light purple/pink
ODOR: Ammonia-like odor
BOILING POINT: Not determined
MELTING/FREEZING POINT: Not determined
SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY: 1.02 g/ml @ 20°C
BULK DENSITY: Not applicable
VAPOR PRESSURE: Not Noted
VAPOR DENSITY: Not applicable (Air = 1)

10. STABILITY AND REACTIVITY:

STABILITY: This is a stable material.

HAZARDOUS POLYMERIZATION.: Will not occur.

INCOMPATIBILITIES: Any oxidizing agent. Consult manufacturer for specific cases.

INSTABILITY CONDITIONS: Avoid sources of ignition if temperature is near or above flash point.

DECOMPOSITION PRODUCTS: Nitrogen oxides and hydrogen chloride may be formed if product is involved in fire.

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY:

ORAL LD50: 3743 mg/kg (male rats); 4444 mg/kg (female rats)

DERMAL LD50: Greater than 2000 mg/kg

INHALATION LC50: Greater than 5.2 mg/l for 4 hours

EYE EFFECTS: May cause moderate irritation with temporary corneal injury.

SKIN EFFECTS: Essentially non-irritating

SENSITIZATION: Did not cause allergic skin reactions when tested in guinea pigs.

CARCINOGENICITY:

The active ingredient did not cancer in long-term animal studies.

TOXICOLOGICAL INFORMATION Continued:

MUTAGENICITY:

(EFFECTS ON GENETIC MATERIAL): Results of in vitro ("test tube") mutagenicity tests and mutagenicity studies in animals were both negative.

DEVELOPMENTAL TOXICITY:

For the active ingredient, birth defects are unlikely, even exposures having an adverse effect on the mother should have no effect on the fetus.

REPRODUCTION:

Triclopyr did not interfere with reproduction in animal studies.

12. ECOLOGICAL INFORMATION:

Do not apply directly to water, to areas where surface water is present, or in intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of Federal Law and may contaminate groundwater. If these cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME: Triclopyr

FREIGHT CLASS PACKAGE: I-44620 - CL65

PRODUCT LABEL: BAYER AG Powerforce Kills Weeds Fast Brush Killer Plus Concentrate

DOT (DOMESTIC SURFACE)

HAZARD CLASS OR DIVISION: Non-Regulated

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER: Non-Regulated

ICAO / IATA (AIR)

HAZARD CLASS DIVISION NUMBER: Non-Regulated

15. REGULATORY INFORMATION:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard; Delayed Health Hazard; Fire Hazard

SECTION 313 TOXIC CHEMICALS: None

RCRA STATUS: Not Noted

16. OTHER INFORMATION:**NFPA 704M RATINGS:**

Health 2 Flammability 2 Reactivity 0 Other
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Bayer's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. NFPA ratings are provided by Bayer as a customer service.

REASON FOR ISSUE: Create New MSDS

PREPARED BY: V. C. Standart

APPROVED BY: D. C. Eberhart

TITLE: Director Product Safety & Stewardship

APPROVAL DATE: 06/20/2002

SUPERSEDES DATE: None

MSDS NUMBER: 45682

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