

Material Safety Data Sheet

Product Name: TZone SE BROADLEAF HERBICIDE FOR TOUGH WEEDS

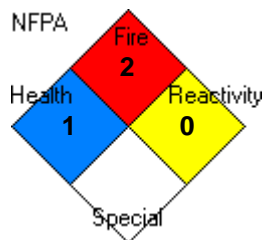
MSDS No.: 836-5

Version No.: 001

EPA Registration No.: 2217-976

1. Basic Information:

Manufacturer: PBI/Gordon Corporation
Address: 1217 West 12th Street
City, State Zip: Kansas City, MO 64101-1407
Information Contact: Environmental, Health, & Safety Dept.
Information Telephone Number: (816)421-4070
Emergency Contact: Chemtrec
Emergency Telephone Number: (800)424-9300



1	Health
2	Flammability
0	Reactivity
C	Pers. Protection

Last Update: 4/26/2013

Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture

2. Ingredients:

Trade Secret (ND = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313 SUB Z	OSHA PEL	ACGIH TLV	Other Limits
			NTP							
53404378	2,4-D 2-ethyl-4-methylpentyl ester	29.32%	N	N	N	N	Y			
1918009	Dicamba	2.22%	N	N	N	N	Y			
122836355	Sulfentrazone	0.66%	N	N	N	N	N	NI	NI	NI
64700567	Triclopyr BEE, butoxyethyl ester	7.72%	N	N	N	N	N			

3. Hazardous Identification:

Hazard Category:
 Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

First Aid Measures (Continued)

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with soap and water. Call a poison control center or doctor for treatment advice.

IF INHALED: Remove victim to fresh air. Administer artificial respiration if necessary. Call a poison control center or doctor for treatment advice.

Other Health Warnings:

Have the product container or label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-877-800-5556 for emergency medical information.

4. First Aid Measures:

Route(s) of Entry:
 Contact, inhalation, ingestion

Health Hazards (Acute and Chronic):
 EYES: Contact may cause irritation.

SKIN: Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals.

INHALATION: May be irritating to respiratory tract.

INGESTION: Harmful if swallowed.

Signs and Symptoms:
 NI

Medical Conditions Generally Aggravated by Exposure:
 NI

Emergency First Aid Procedure:
IF IN 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.

IF SWALLOWED: 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 told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. Fire Fighting Measures:

Flash Point: 123°F **F.P. Method:** Closed Cup

Lower Explosive Limit: NI

Upper Explosive Limit: NI

Fire Extinguishing Media:
 Dry chemical, foam, CO2, water.

Special Fire Fighting Procedures:
 The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173.

Contain runoff in the event that water is used to suppress a fire. This pesticide is toxic to fish and invertebrates.

Unusual Fire and Explosion:
 None

6. Accidental Release Measures:

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Accidental Release Measures (Continued)

Steps to be Taken in Case Material is Released or Spilled:

See Section 8 for Personal Protective Equipment. Contain and collect the spilled product for reuse or disposal. Cover and label the containers. Wash area with water if possible. Do not allow rinse water to pollute surface waters.

7. Handling and Storage:

Precautions to be Taken:

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Store in original container in a locked storage area inaccessible to children or pets. Keep from freezing.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, spray mixtures, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use 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.

Other Precautions:

NI

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

Good local ventilation.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are barrier laminate, nitrile rubber, neoprene rubber, and Viton. If you want more options, follow the instructions for category A on a EPA chemical resistance category chart.

All mixers, loaders, and handlers must wear the following:
long-sleeved shirts and pants
shoes and socks
chemical resistant gloves
safety goggles

A chemical-resistant apron should be worn when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS:

Users should wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

9. Physical and Chemical Properties:

Physical and Chemical Properties (Continued)

Boiling Point: NI

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1): NI

Vapor Pressure (mm Hg.): NI

Vapor Density (Air = 1): NI

Specific Gravity (H2O = 1): 1.07950

Solubility in Water: Miscible

Appearance and Odor: White Opaque Liquid with a Fruity Odor

Other Information:

pH: 7.5-8.5

WEIGHT: 8.963 Pounds/Gallon

10. Stability and Reactivity:

Stability:

Stable.

Incompatibility (Materials to Avoid):

Corrosive materials and oxidizers.

Decomposition/By-Products:

CO_x, NO_x

Hazardous Polymerization:

Will not occur.

11. Toxicological Information:

Eyes: Classified as minimally irritating to the eye. Maximum mean total score is 6.0

Inhalation: Single exposure acute inhalation LC50 >2.10 mg/L in male and female rats.

Ingestion: Acute oral LD50 = 1,030 mg/kg of body weight.

Skin: Acute dermal LD50 > 5,000 mg/kg of body weight in male and female rats.

Classified as slightly irritating to the skin. Primary dermal irritation index is 1.1

Dermal sensitization: Classified as a contact dermal sensitizer at 100% concentration

12. Ecological Information:

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treatment areas. Do not contaminate water when disposing of equipment wash water(s) or rinsate.

These chemicals (triclopyr, 2,4-D and dicamba) have properties and characteristics associated with chemicals detected in groundwater. The use of these chemicals in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

13. Disposal Considerations:

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Disposal Considerations (Continued)

Other Information (Continued)

CONTAINER HANDLING (NON REFILLABLE CONTAINERS): Do not reuse or refill this container. Triple rinse or pressure rinse the container (or equivalent) promptly after emptying. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill or by incineration.

CONTAINER HANDLING (REFILLABLE CONTAINERS): Refill this container with pesticides only. Do not reuse this container for any other purpose. To clean the container before final disposal, empty the remaining contents of the container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat the rinsing procedure two more times.

14. Transport Information:

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Department.

Freight Class: Herbicides, NOI - NMFC Class #50320

Proper Shipping Name:

For package sizes less than 38.05 gallons: product is non-regulated.

For package sizes 38.05 gallons or greater: Environmentally Hazardous Substances, Liquid, N.O.S., 9, UN3082, PGIII, RQ (Dicamba)

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: 341 pounds of the formulation which contains 100 pounds of 2,4,-D. 1664 pounds of the formulation which contains 1,000 pounds of Dicamba.

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard, Delayed Health Hazard

SECTION 313 TOXIC CHEMICALS: 2,4-D esters (CAS # 5340-437-8) and Dicamba (CAS # 1918-00-9)

RCRA STATUS: When discarded in its purchased form, this product is a listed RCRA hazardous waste and should be managed as a hazardous waste. (40 CFR Part 261.20-24)

16. Other Information:

REASON FOR ISSUE: To revise MSDS to the ANSI Z400.1-1998 format

NOTE: NI means not indicated.

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.