



Bonide Weed Beater Plus Crabgrass & Broadleaf Weed Killer Ready to Spray

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date: 03/08/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Bonide Weed Beater Plus Crabgrass & Broadleaf Weed Killer Ready to Spray
Product code : 4466

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Herbicide

1.3. Details of the supplier of the safety data sheet

Bonide Products, LLC
6301 Sutliff Road
Oriskany, NY 13424

Telephone Number: (315) 736-8231
Comment: Bonide hours of operation are 8:00 a.m. to 4:30 p.m EST.

Website: www.bonide.com

Email address: sales@bonide.com

1.4. Emergency telephone numbers (24 hour)

Medical : SafetyCall - (833) 972-1101
Spills : CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Eye damage/irritation 2B H320
Chronic Aquatic Toxicity 3 H412

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) : None
Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H320 - Causes eye irritation
H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS-US) : P264 - Wash thoroughly after handling.
P273 - Avoid release to the environment.
P305 + P351 + P338 - IF IN EYES - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P317 - If eye irritation persists: Get medical help.
P501 - Dispose of contents/container to in accordance with local/national regulations.

2.3. Other hazards

May cause irritation if inhaled. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area.
May cause slight irritation if skin contact occurs. If on skin wash thoroughly and if irritation or rash occurs, contact a doctor for advice.
Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

SECTION 3: Composition/information on ingredients

Mixture

Name	Product identifier	%
2,4-D, dimethylamine salt	(CAS No) 2008-39-1	6.42
Quinclorac	(CAS No) 84087-01-4	2.13
Dicamba, dimethylamine salt	(CAS No) 2300-66-5	0.6
Trade Secret	NA	> 1*
Trade Secret	NA	> 1*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label and Safety Data Sheet where possible).
- First-aid measures after inhalation : Assure fresh air breathing. Allow the person to rest. Seek medical attention if you feel unwell.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If irritation occurs and persists see a doctor. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
- Self-protection for the first aider : Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Explosion data - Sensitivity to mechanical impact: None. Sensitivity to static discharge: None.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
- Protection during firefighting : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas Do not flush into surface water or sanitary sewer system Prevent further leakage or spillage if safe to do so. Prevent product from entering drains See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Prevent further leakage or spillage if safe to do so. Dam up. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers. Keep from freezing.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2,4-D, dimethylamine salt (2008-39-1)	TWA: 10 mg/m3 inhalable fraction s*	TWA: 10 mg/m3	IDLH: 10 mg/m3, TWA: 10 mg/m3

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Trade Secret	STEL: 15 ppm TWA: 5ppm	TWA: 10 ppm TWA: 18 mg/m3 (vacated) TWA: 10 ppm (vacated) TWA: 18 mg/m3	IDLH: 500 ppm TWA: 10 ppm TWA: 18 mg/m3
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NIOSH IDLH Immediately Dangerous to Life or Health

Other information Vacated limits revoked by the Court of Appeals decision in AFL_CIO v. OSHA, 965 F 2d 962 (11th Cir., 1992).

Engineering Controls Showers, Eyewash stations, ventilation systems.

8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure. Avoid contact with skin, eyes or clothing.
Hand protection	: Wear protective gloves.
Eye protection	: Tight sealing safety goggles.
Respiratory protection	: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Other information	: When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Ensure adequate ventilation, especially in confined areas.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Dark brown opaque liquid.
Color	: Dark brown.
Odor	: Mild sweet.
Odor threshold	: No data available
pH	: 8.2
Melting point / Freezing point	: < 35 °F (1.67 °C)
Boiling point	: 212 °F (100 °C)
Flash point	: > 212 °F (> 100 °C) Pensky-Martens Closed Cup (PMCC)
Self ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: <17 mm Hg
Vapor density	: >1
Specific gravity	: 1.0339
Solubility	: Soluble in water
Autoignition temperature	: No data available
Liquid density	: 8.62 pounds/gallon

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Hazardous polymerization

Will not occur.

10.5. Conditions to avoid

Extremely high or low temperatures. Keep from freezing. Keep out of reach of children.

10.6. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.7. Hazardous decomposition products

May emit toxic fumes under fire conditions. Hydrogen chloride. Nitrogen oxides (NOx). Carbon monoxide.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,4-D, dimethylamine salt 2008-39-1	= 625 mg/kg (Rat)	= 2115 mg/kg (Rabbit)	-
Quinclorac 84087-01-4	= 2190 mg/kg (Rat)	> 2 g/kg (Rat)	-
Dimethylamine dicamba 2300-66-5	= 1267 mg/kg (Rat) = 2629 mg/kg (Rat)	> 2 g/kg (Rabbit) > 2000 mg/kg (Rabbit)	-
Trade Secret	= 698 mg/kg (Rat)	= 3900 mg/kg (Rat)	= 4540 ppm (Rat) 6 h
Trade Secret	= 10 g/kg (Rat) = 1658 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

No information available.

Numerical measures of toxicity - Product Information

Unknown Toxicity

9 % of the mixture consists of ingredient(s) of unknown toxicity.

LD50 Oral	2721 mg/kg Rat-female
LD50 Dermal	> 5000 mg/kg (rat)
LC50 Inhalation (DUST)	> 2.05 mg/L (rat)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	: May cause skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: Not a skin sensitizer.
Germ cell mutagenicity	: No information available
Carcinogenicity	: The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides in its Group 2B (limited evidence for Carcinogenicity in humans.) The US EPA has given the chlorophenoxy Herbicides 2,4-D, 2,4-DP, MCPP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.) More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
2,4-D, dimethylamine salt 2008-39-1	-	Group 2B	-	-

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Eye irritation. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeat exposure.
Symptoms/injuries after inhalation	: Inhalation may provoke the following symptoms: burning sensation, discomfort in the chest, cough and dizziness.
Symptoms/injuries after ingestion	: Ingestion may provoke: discomfort in chest, vomiting, adominal pain and diarrhea.

SECTION 12: Ecological information

12.1. Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trade Secret	9: 96 h Pseudokirchneriella subcapitata mg/L EC50	210: 96 h Poecilia reticulata mg/L LC50 static 111 - 125: 96 h Oncorhynchus mykiss mg/L LC50 120: 96 h Oncorhynchus mykiss mg/L LC50 static 127 - 349: 96 h Poecilia reticulata mg/L LC50 semi-static 396: 96 h	EC50 = 26.8 mg/L 15 min	88.7: 48 h Daphnia magna Straus mg/L EC50

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		Brachydanio rerio mg/L LC50 static		
Trade Secret	1.01: 72 h Desmodosmus subspicatus mg/L EC50	59.8: 96 h Pimephales promelas mg/L LC50 static 41: 96 h Lepomis macrochirus mg/L LC50 static	-	610: 24 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Toxic to fish and aquatic invertebrates. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Not regulated for transport by DOT, IATA, IMDG, due to limited quantity.

SECTION 15: Regulatory information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Harmful if swallowed. When using this product, wear long-sleeved shirt, long pants, socks, shoes, and rubber gloves. Environmental Hazards: This pesticide is toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

United States Toxic Substances Control Act Section 8(b) Inventory (TSCA) - Not Listed

US Federal Regulations

SARA 313 - Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Trade Secret	1000 lb	-	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
2,4-D, dimethylamine salt 2008-39-1	100 lb	-

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Trade Secret	1000 lb	-
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US State Regulations

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Dimethylamine dicamba 2300-66-5	X	-	-
Trade Secret	X	X	X

SECTION 16: Other information

NFPA Health hazards 1 Flammability 1 Instability 0 Physical and Chemical Properties -
HMIS Health hazards 1 Flammability 1 Physical hazards 0 Personal protection X

SDS US (GHS HazCom 2012) - Pesticides

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.