



Bonide Weed Beater Lawn Weed Killer Concentrate

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

1.1. Product identifier

Product name : Bonide Weed Beater Lawn Weed Killer Concentrate
Product code : 22175394

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)

Flammable liquid 3	H226
Acute Dermal toxicity 4	H312
Skin Sensitization 1	H317
Serious eye damage/irritation 1	H318
Chronic Aquatic Toxicity 3	H412

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H226 - Flammable liquid and vapor
H312 - Harmful if in contact with skin
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H412 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235+P405 - Keep cool and store locked up.
P240 - Ground and bond container and receiving equipment.
P241+P242 - Use explosion-proof equipment and non-sparking tools.
P243 - Take action to prevent static discharge.
P261 - Avoid breathing mist or vapors.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, clothing, eye, and face protection.
P302+P352 - If on skin: Wash with plenty of water.
P333+P317 - If skin irritation or rash occurs: Get medical help.
P321+P317 - For specific treatment: Get medical help.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P305+P338+P354 - If in eyes: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P353 - If on skin (or hair): Rinse affected areas with water (or shower).

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P361+P364 - Take off immediately all contaminated clothing and wash before reuse.
P370 - In case of fire: Use CO₂, dry chemical or foam to extinguish.
P501 - Dispose of contents/container to in accordance with local/national regulations

2.3. Other hazards

The low flashpoint 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 Appendix H; however, OSHA HCS 2012 flammable classifications are solely based on tested mixture flash points and boiling points.

SECTION 3: Composition/information on ingredients

Mixture

Name	Product identifier	%
2,4-D, dimethylamine salt	(CAS No) 2008-39-1	7.59
Mecoprop-P (MCPP-p) dimethylamine salt	(CAS No) 66423-09-4	1.83
Dicamba, dimethylamine salt	(CAS No) 2300-66-5	0.84

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 where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the person to rest.
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.
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 emergency medical attention.

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

Symptoms/injuries	: Repeated and prolonged overexposure may cause cronic irritation of respiratory tract. Overexposure may cause adverse effects to liver, kidneys, skin, muscular and gastrointestinal systems.
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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a water stream.

5.2. Special hazards arising from the substance or mixture

In the event of fire and/or explosion do not breathe fumes. May cause sensitiation by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Firefighting instructions	: Use fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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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 eating, drinking or smoking and when leaving work. Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharges. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container in a cool well ventilated place. Keep container closed and locked when not in use.
Incompatible products : Acids.
Incompatible materials : Sources of ignition.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2,4-D dimethylamine salt 2008-39-1	TWA: 10 mg/m ³ inhalable fraction S*	TWA: 10 mg/m ³	IDLH: 10 mg/m ³ , TWA: 10 mg/m ³

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 Ensure adequate ventilation, especially in confined areas.

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.
Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.
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 : Liquid, phenolic odor
Color : Brown semi-translucent
Odor : Amines
pH : 7.5-8.5
Relative evaporation rate (butyl acetate=1) : No data available
Melting point/ Freezing point : <35 °F
Boiling point/ boiling range : 212°F (100 °C)
Flash point : 107 °F (42 °C)CC (closed cup)
Self ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : <17 mmHg
Vapor density : <1
Specific gravity : 1.0287
Solubility : Soluble in water.
Oxidizing properties : No data available
Density : 8.56 pounds/gallon

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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Keep out of reach of children.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

May emit toxic fumes under fire conditions; Carbon monoxide, Carbon dioxide, and Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2,4-D, dimethylamine salt (2008-39-1)	
LD50 oral rat	625 mg/kg (Rat)
LD50 dermal rabbit	2115 mg/kg (Rabbit)

Skin corrosion/irritation : Not classified

pH: 8

Serious eye damage/irritation : Not classified

pH: 8

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

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.

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 : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

2,4-D, dimethylamine salt (2008-39-1)	
LC50 fish 1	> 100 mg/l 96 h; <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)
LC50 other aquatic organisms 1	4 mg/l (48 h; <i>Daphnia magna</i>)
LC50 fish 2	168 mg/l (96 h; <i>Lepomis macrochirus</i>)
Threshold limit other aquatic organisms 2	1 mg/l <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>)

12.2. Persistence and degradability

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Persistence and degradability	Not established.

2,4-D, dimethylamine salt (2008-39-1)	
Persistence and degradability	Not readily biodegradable in water.

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Dicamba, dimethylamine salt (2300-66-5)	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

2,4-D, dimethylamine salt (2008-39-1)	
BCF fish 1	0.1 (Ictalurus punctatus)
BCF fish 2	0.47 (Lepomis macrochirus)
Log Pow	0.65 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Dicamba, dimethylamine salt (2300-66-5)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No information available

12.5. Other adverse effects

Other information : Avoid release to the environment, as it is toxic to fish and aquatic invertebrates.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not reuse container.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

DOT: Not regulated for transport by DOT due to sizes less than 153.92 gallons. UN3082, Environmentally Hazardous Substances, Liquid, N.O.S., 9 PGIII, RQ (2,4-D). The product does not qualify as Hazardous Material in the sizes currently available.

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

Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long sleeved shirt, long pants, socks, shoes and gloves. Remove and wash contaminated clothing before reuse.

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 261.20-24)

15.1. US Federal regulations

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

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

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
2,4-D, dimethylamine salt 2008-39-1	100 lb		100lb final, 45.4 kg

15.2. US State regulations

Dimethylamine dicamba (2300-66-5)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information : None.

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.