



# Bonide Weed Beater Southern Lawns Ready to Spray

## 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 Southern Lawns Ready to Spray  
Product code : 2281814

#### 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](http://www.bonide.com)  
Email address: [sales@bonide.com](mailto: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)

Acute Toxicity - Oral 4 H302  
Eye damage/irritation 2B H320  
Sensitisation, skin 1 H317  
Acute hazard to aquatic environment 3 H402

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H302 - Harmful if swallowed  
H320 - Causes eye irritation  
H317 - May cause an allergic skin reaction  
H402 - Harmful to aquatic life

Precautionary statements (GHS-US) :

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P317 - IF SWALLOWED: Get medical help  
P330 - Rinse mouth.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
P321 - Specific treatment (see on this label).  
P332 - If skin irritation occurs: Get medical help.  
P362 + P364 - Take off contaminated clothing and wash it before reuse.  
P305 + P351 + P338 - IF IN EYES - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
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 be hazardous if inhaled. Avoid breathing in mist, spray or vapors.

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### SECTION 3: Composition/information on ingredients

#### Mixture

Name	Product identifier (CAS No)	%
2,4-D, dimethylamine salt	2008-39-1	4.55
Mecoprop-P, dimethylamine salt	66423-09-4	2.3
Dimethylamine Salt of (+)-R-2-(2,4-Dichlorophenoxy) propionic acid	104786-87-0	2.26

### 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. If breathing is difficult, administer oxygen. If symptoms develop, get medical advice.
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

May cause mild eye irritation. May be harmful if swallowed. May cause allergic skin reaction (sensitization).

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

For ingestion there is no specific antidote available. Treat symptomatically.

### 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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or 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. Notify authorities if liquid enters sewers or 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 eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
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#### 7.2. Conditions for safe storage, including any incompatibilities

Always use original container to store pesticides in a secured warehouse or storage building. Store at temperatures above 32° F. If allowed to freeze, remix before using. This does not alter the product. Containers should be opened in well-ventilated areas. Keep container tightly sealed when not in use.

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Do not stack cardboard cases more than two pallets high. Do not store near open containers of fertilizer, seed or other pesticides. Do not contaminate water, food or feed by storage and disposal.

### SECTION 8: Exposure controls/personal protection

#### Engineering Controls:

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

#### Personal Protective Equipment:

**Eye/Face Protection:** To avoid contact with eyes, wear face shield, goggles or safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

**Skin Protection:** To avoid contact with skin wear long pants, long-sleeved shirt, shoes, socks and rubber gloves when mixing. An emergency shower or water supply should be readily accessible to the work area.

**Respiratory Protection:** Not normally required. If vapors, mists or dusts exceed acceptable levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against pesticides.

**General Hygiene Considerations:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

#### Exposure Guidelines:

Component	OSHA		ACGIH		Unit
	TWA	STEL	TWA	STEL	
Dimethylamine Salt of 2,4-D	10*	NE	10* (inhalable, skin)	NE	mg/m3
Dimethylamine Salt of Mecoprop-p	NE	NE	NE	NE	
Dimethylamine Salt of Dichlorprop-p	NE	NE	NE	NE	
Other Ingredients	N/A	N/A	N/A	N/A	

\*Based on adopted limit for 2,4-Dichlorophenoxyacetic acid NE = Not Established, N/A= Not Applicable

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Amber liquid, slight Amine odor.
Color	: Amber.
Odor	: Amine-like.
Odor threshold	: No data available
pH	: 5.90 (1% w/w dilution in DIW)
Melting point/ Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable due to aqueous solution
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative density	: 1.023 g/cc @ 22° C
Solubility	: Dispersible
Viscosity	: 1.34 cPs @ 22° C; 0.917 cPs @ 41°C
VOC Emission Potential (%)	: 5.22

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Not reactive.

#### 10.2. Chemical stability

Stable under normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

Will not occur.

#### 10.4. Conditions to avoid

Excessive heat. Do not store near heat or flame.

#### 10.5. Incompatible materials

Strong oxidizing agents: bases and acids.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

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### SECTION 11: Toxicological information

**Likely Routes of Exposure:** Inhalation, Eye and Skin contact.

**Symptoms of Exposure:**

**Eye Contact:** Causes mild eye irritation.

**Skin Contact:** Causes slight skin irritation

**Ingestion:** Harmful if swallowed. May cause nausea, vomiting, abdominal pain, decreased blood pressure, muscle weakness, muscle spasms.

**Inhalation:** Low inhalation toxicity.

**Delayed, immediate and chronic effects of exposure:** None known.

**Toxicological Data:**

Data from laboratory studies on a substantially similar product unless otherwise noted (\*) = this product

**Oral, Rat LD50:** > 550 mg/kg

**Dermal, Rat or Rabbit LD50:** >5,000 mg/kg

**Inhalation, Rat 4-hr LC50:** >2.05 mg/l (no mortalities highest dose tested)

**Eye Irritation, Rabbit:** Mildly Irritating (MMTS=19.3) \*

**Skin Irritation, Rabbit:** Slightly irritating

**Skin Sensitization, Guinea Pig:** Sensitizer \*

**Subchronic (Target Organ) Effects:** Repeated overexposure may cause effects to liver, kidneys, blood chemistry, testes and gross motor function.

Rare cases of peripheral nerve damage have been reported, but extensive animal studies have failed to substantiate these observations, even at high doses for prolonged periods.

**Carcinogenicity / Chronic Health Effects:** The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen, the category for limited evidence for carcinogenicity in humans. However, newer rat and mouse lifetime feeding studies as well as an MCPP lifetime feeding study in rats, did not show carcinogenic potential for 2,4-D, MCPP or dichlorprop/dichlorprop-p. The U.S. EPA has given 2,4-D a Class D classification (not classifiable as to human carcinogenicity).

**Reproductive Toxicity:** No impairment of reproductive function attributable to 2,4-D have been noted in laboratory animal studies. No impairment of reproductive function attributable to dichlorprop has been noted in laboratory animal studies.

**Developmental Toxicity:** Studies in laboratory animals with 2,4-D and MCPP have shown decreased fetal body weights and delayed development in the offspring at doses toxic to mother animals. Rat and rabbit studies on dichlorprop-p resulted in fetal mortality, decreased fetal body weight, decreased body weight gain and developmental delays at doses that were also toxic to mother animals. There was no evidence of birth defects in either species.

**Genotoxicity:** There have been some positive and some negative studies, but the weight of evidence is that neither 2,4-D nor MCPP is mutagenic. Genotoxicity studies on dichlorprop-p have been inconclusive with some positive and some negative results, but the weight of evidence suggests it is not mutagenic.

### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

**Data on 2,4-D DMA:**

96-hour LC50 Bluegill: 524 mg/l

96-hour LC50 Rainbow Trout: 250 mg/l

48 hour EC50 Daphnia: 184 mg/l

Bobwhite Quail Oral LD50: 500 mg/kg

Mallard Duck 8 day Dietary LC50: >5,620 ppm

**Data on Mecoprop-p DMA:**

96-hour LC50 Bluegill: >93 mg/l

96-hour LC50 Rainbow Trout: >150 mg/l

48-hour LC50 Daphnia: >91 mg/l

Bobwhite Quail Oral LD50: >498 mg/kg

Bobwhite Quail 8-day Dietary LC50: >4,633 mg/kg

Mallard Duck 8-day Dietary LC50: >4,137 mg/kg

**Data on Dichlorprop-p DMA:**

96-hour LC50 Bluegill: >151 mg/l

96-hour LC50 Rainbow Trout: >109 mg/l

Mallard Duck 8-day Dietary LC50: >700 ppm

Bobwhite Quail Oral LD50: >225 and < 560 mg/kg

Bobwhite Quail 8-day Dietary LC50: >5,600 ppm

#### 12.2. Environmental Fate

In laboratory and field studies, 2,4-D DMA salt rapidly dissociated to parent acid in the environment. The typical half-life of the resultant 2,4-D acid ranged from a few days to a few weeks. Mecoprop-p DMA rapidly dissociates to parent mecoprop-p in the environment. In soil, mecoprop-p is microbially degraded with a typical half-life of approximately 11 to 15 days. Dichlorprop-p DMA salt rapidly dissociates to parent dichlorprop-p in the environment. In soil, dichlorprop-p has a typical half-life of approximately 7 days.

#### 12.5. Other adverse effects

Other information : 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.

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

Not regulated for transport by DOT.

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### 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** - Causes moderate eye irritation. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist or vapor. Wear long-sleeved shirt, long pants, shoes, socks and waterproof gloves.

### 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.*