

# Earl May Total Weed Control 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 : Earl May Total Weed Control Concentrate  
Product code : 44663772

#### 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)

Flammable liquid 4 H227  
Skin Sensitization 1B H317  
Eye damage/irritation 2 H319

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H227 - Combustible liquid  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
P370+P378 - In case of fire: Use foam or dry powder for extinction.  
P403 - Store in a dry place.  
P501 - Dispose of contents/container to in accordance with local/national regulations.

#### 2.3. Other hazards

Avoid breathing mist/spray.

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	6.42
Quinclorac	(CAS No) 84087-01-4	2.13
Dicamba, dimethylamine salt	(CAS No) 2300-66-5	0.6

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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 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.

#### 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

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. Avoid (reject) fire-fighting water to enter environment.
- 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.

##### 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.

### 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.
- 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

- Storage conditions : Store in original container. Keep container closed when not in use.
- Incompatible products : Strong acids.
- Incompatible materials : Sources of ignition.

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### 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

*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 (11<sup>th</sup> 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	: Black to Brown opaque liquid.
Color	: Black to brown.
Odor	: Mild sweet.
Odor threshold	: No data available
pH	: 7.5 - 8.5
Melting point	: No data available
Freezing point	: 35.06 °F (1.7 °C)
Boiling point	: 212 °F (100 °C)
Flash point	: 147 °F (63.8 °C)
Self ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative density	: 1.037
Solubility	: Soluble in water

### 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

Not established.

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Keep from freezing.

#### 10.5. Incompatible materials

Strong acids.

#### 10.6. Hazardous decomposition products

Carbon monoxide. Hydrogen chloride. nitrogen oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

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

Dimethylamine dicamba (2300-66-5)	
LD50 oral rat	1267 mg/kg, 2629 mg/kg
LD50 dermal rabbit	> 2 g/kg

Skin corrosion/irritation	: Not classified pH: 7.5 - 8.5
Serious eye damage/irritation	: Not classified pH: 7.5 - 8.5
Respiratory or skin sensitization	: May cause an allergic skin reaction.
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	: 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, abdominal pain and diarrhea.

## 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

Earl May Total Weed Control Concentrate	
Persistence and degradability	Not established.
Quinclorac (84087-01-4)	
Persistence and degradability	Not established.
2,4-D, dimethylamine salt (2008-39-1)	
Persistence and degradability	Not readily biodegradable in water.
Dicamba, dimethylamine salt (2300-66-5)	
Persistence and degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

Earl May Total Weed Control Concentrate	
Bioaccumulative potential	Not established.
Quinclorac (84087-01-4)	
Bioaccumulative potential	Not established.

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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 additional information available

### 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. 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.

## 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. 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.

## 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.*