

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 : DuraTurf Crabgrass Plus Crabgrass & Broadleaf Weed Killer

Product code : 22179734

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

### 1.3. Details of the supplier of the safety data sheet

Bonide Products, Inc. 6301 Sutliff Road Oriskany, NY 13424 T (315) 736-8231 www.bonide.com

### 1.4. Emergency telephone number

Emergency number : 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)**

Skin Sens. 1 H317 Carc. 2 H351

### 2.2. Label elements

### **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS07



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer.

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P261 - Avoid breathing dust

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective gloves/protective clothing/eye protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P308+P313 - IF exposed or concerned: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse

P405 - Store locked up

P501 - Dispose of contents/container to in accordance with local/national regulations

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

### **SECTION 3: Composition/information on ingredients**

### **Mixture**

Name	Product identifier	%	Classification (GHS-US)
2,4-dichlorophenoxyacetic acid	(CAS No) 94-75-7	0.675	Carc. 2, H351
Quinclorac	(CAS No) 84087-01-4	0.346	Skin Sens. 1, H317
Dithopyr	(CAS No) 97886-45-8	0.121	Not classified

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Name	Product identifier	%	Classification (GHS-US)
dicamba	(CAS No) 1918-00-9	0.06	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312

### **SECTION 4: First aid measures**

### **Description of first aid measures**

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice First-aid measures general

(show the label where possible). Suspected of causing cancer. First-aid measures after inhalation : Assure fresh air breathing. Allow the victim 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. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see ... on this label). 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 emergency medical attention.

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

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

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

No additional information available

### **SECTION 5: Firefighting measures**

### **Extinguishing media**

suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### Special hazards arising from the substance or mixture

No additional information available

### **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.

### 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.

### Methods and material for containment and cleaning up

Methods for cleaning up On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from

other materials.

### Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

### Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and Precautions for safe handling when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. 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.

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#### 7.2. Conditions for safe storage, including any incompatibilities

: Keep container closed when not in use. Storage conditions

Incompatible products Strong bases, strong acids.

Incompatible materials Sources of ignition.

### Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

No additional information available

#### **Exposure controls** 8.2.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection Wear protective gloves.

Eye protection Chemical goggles or safety glasses.

Respiratory protection Wear approved mask.

Other information When using, do not eat, drink or smoke.

### **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

Physical state : Solid

Appearance White and brown granules

Color white and brown Odor odorless

Odor threshold No data available pН No data available

pH solution 6.59

Relative evaporation rate (butyl acetate=1) No data available Melting point : No data available Freezing point No data available : No data available Boiling point : No data available Flash point Self ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density No data available Solubility : Insoluble in water. Log Pow : No data available Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic No data available Explosive properties No data available Oxidizing properties No data available Explosive limits : No data available

### Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

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### 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.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

2,4-dichlorophenoxyacetic acid (94-75-7)		
LD50 oral rat	630-774,Rat; Other; Experimental value; 375 mg/kg; Rat	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value; Other)	

dicamba (1918-00-9)		
LD50 oral rat	1039 mg/kg (Rat)	
LD50 dermal rat	2000 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

### 2,4-dichlorophenoxyacetic acid (94-75-7)

IARC group 2B - Possibly Carcinogenic to Humans

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.

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

2,4-dichlorophenoxyacetic acid (94-75-7)		
LC50 fish 1	31 - 96 mg/l (96 h; Cyprinus carpio)	
EC50 Daphnia 1	90 mg/l (48 h; Daphnia magna)	
LC50 fish 2	82 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
TLM fish 1	375 mg/l (48 h; Lepomis macrochirus)	
Threshold limit algae 1	< 0.1 mg/l (Scenedesmus quadricauda; Chronic)	
Threshold limit algae 2	26.4 mg/l (120 h; Selenastrum capricornutum; Growth rate)	

dicamba (1918-00-9)		
LC50 fish 1	23 mg/l (96 h; Lepomis macrochirus)	
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)	

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dicamba (1918-00-9)	
EC50 Daphnia 1	> 100 mg/l (48 h; Daphnia magna; Locomotor effect)
LC50 fish 2	28 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1	40 ppm (48 h; Lepomis macrochirus)
TLM fish 2	35 ppm 48 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit other aquatic organisms 1	10 - 100,96 h

#### Persistence and degradability 12.2.

DuraTurf Crabgrass Plus Crabgrass & Broadleaf Weed Killer		
Persistence and degradability	Not established.	
2,4-dichlorophenoxyacetic acid (94-75-7)		
Persistence and degradability	Readily biodegradable in water. Inhibition of nitrification. Biodegradable in the soil. No (test)data on mobility of the substance available.	
Quinclorac (84087-01-4)		
Persistence and degradability	Not established.	

12.3. Bioaccumulative potential		
DuraTurf Crabgrass Plus Crabgrass & Broadleaf Weed Killer		
Bioaccumulative potential	Not established.	
2,4-dichlorophenoxyacetic acid (94-75-7)		
BCF fish 1	< 10 (3 days; Leuciscus idus)	
BCF other aquatic organisms 1	6 (24 h; Algae)	
Log Pow	2.58 - 2.83 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
dicamba (1918-00-9)		
Log Pow	2.21	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Quinclorac (84087-01-4)		
Bioaccumulative potential	Not established.	

#### 12.4. **Mobility in soil**

dicamba (1918-00-9)	
Ecology - soil	Not toxic to bees.

#### Other adverse effects 12.5.

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

### 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**

In accordance with DOT

No dangerous good in sense of transport regulations

**Additional information** 

Other information : No supplementary information available.

**ADR** 

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

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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.

Avoid contact with eyes, skin or clothing.

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

### **DuraTurf Crabgrass Plus Crabgrass & Broadleaf Weed Killer**

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 2,4-dichlorophenoxyacetic acid (94-75-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's List of Lists) :

### 15.2. International regulations

### **CANADA**

No additional information available

### **EU-Regulations**

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

### 2,4-dichlorophenoxyacetic acid (94-75-7)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

to the prince of the control for		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Carc. 2	Carcinogenicity Category 2	
Skin Sens. 1	Skin sensitization Category 1	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
H317	May cause an allergic skin reaction	
H351	Suspected of causing cancer	

SDS US (GHS HazCom 2012) - Pesticides

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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.

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