

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

Product identifier

: Bonide Duraturf Crabgrass Preventer 24-0-8 Product name

Product code : 2286134

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

Use of the substance/mixture : Herbicide and Fertilizer

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

: CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887 Spills

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (GHS-US)

Skin Sensitation 1 H317 Carcinogenicity 1A H350

22 **Label elements**

GHS-US labeling

Hazard pictograms (GHS-US)





Signal word (GHS-US) Warning

Hazard statements (GHS-US) H317 - May cause an allergic skin reaction H350 - May cause cancer (inhalation)

Precautionary statements (GHS-US) P203 - Obtain, read and follow all safety instructions before use.

P261 - Avoid breathing dust

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

P280 - Wear protective gloves, clothing, eye and face protection.

P318 - If exposed or concerned, get medical advice. P321 - Specific treatment (see Section 4/ First Aid). P302 + P352 - IF ON SKIN: Wash with plenty of water. P333+P317 - If skin irritation or rash occurs: Get medical help.

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/regional/national regulations.

Other hazards

Avoid creating dust when handling, using or storing.

SECTION 3: Composition/information on ingredients

Mixture

Name	Product identifier (CAS No)	%
Prodiamine	29091-21-2	0.28
Limestone	1317-65-3	> 10
Silica, crystalline - quartz*	14808-60-7	> 0.1*

^{*}May be present as a naturally occurring mineral in the ingredients used in this formulation. The respirable portion of crystalline silica in this product is very small, and excessive inhalation is unlikely under normal conditions of use.

Revision date: 02/02/2022 EN (English US) Page 1

Safety Data Sheet

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

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.

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

Symptoms/injuries : Repeated and prolonged exposure through inhalation may cause cancer; may cause an allergic

skin reaction in those individuals with sensitivity to prodiamine.

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

Treat symptomatically and supportively.

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 : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear

positive pressure self-contained breathing apparatus (SCBA).

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 : On land, sweep or shovel into suitable containers. Minimize generation of dust. 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 dust.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from moisture. Keep container closed when not in use. Store in original container.

Incompatible products : Strong bases. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Silica, crystalline - quartz (14808-60-7)	TWAs	0.025 mg/m3 TWA (respirable fraction)	0.05 mg/m3 TWA (respirable dust)	See below
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA (total dust); 5mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

Revision date: 02/02/2022 EN (English US) 2/5

Safety Data Sheet

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

Exposure Control Notations: ACGIH - Silica, crystalline-quartz (14808-60-7): Carcinogens: (A2 - Suspected Human Carcinogen)

Exposure Limits Supplemental: OSHA - Silica, crystalline-quartz (14808-60-7): **Mineral Dusts:** ((30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction)

ACGIH - Silica, crystalline-quartz (14808-60-7): TLV Basis - Critical Effects: (lung cancer; pulmonary fibrosis)

8.2. Exposure controls

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. If airborne dust is present, use appropriate respiratory protection.

Personal protective equipment : Avoid all unnecessary exposure. A full body suit such as Tyveck or Tychem suit is recommended

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear an approved MSHA/NIOSH N-95 mask.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Multi-colored granules

Color Multi-colored : Fertilizer odor Odor Odor threshold : No data available Ha : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available : No data available Boiling point Flash point : No data available Self ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Bulk density : 45 to 80 lbs/ft3 : Partially soluble Solubility

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

Hazardous polymerzation will not occur.

10.4. Conditions to avoid

Moisture and humid conditions.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Decomposes on heating above melting point producing carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Prodiamine 0.28% (CAS# 29091-21-2); Ingestion/oral rat LD50 >5000 mg/kg;

Inhalation rat LC50 1.81mg/L 4 hours;

Skin rat LD50 >2000 mg/kg Classification criteria not met

Revision date: 02/02/2022 EN (English US) 3/5

Safety Data Sheet

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

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Skin sensitizer 1
Germ cell mutagenicity : Not classified
Carcinogenicity : Carcinogenicity 1A
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

11.2. Potential Health Effects

Inhalation

Acute (Immediate): May cause irritation. Acute silicosis can occur with exposures to very high concentrations of respirable crystalline silica

over a very shory time period, sometimes as short as a few months. The systoms of acute silicosis include progressive

shortness of breath, fever cough and weight loss.

Chronic (Delayed): Repeated and prolonged exposure may cause lung damage - silicosis, fibrosis, inflammation, cancer

Skin

Acute (Immediate): May cause an allergic reaction in individuals with a sensitivity to prodiamine. May cause mild irritation.

Chronic (Delayed): No data available.

Eye

Acute (Immediate): May cause mild irritation.
Chronic (Delayed): No data available.

Ingestion

Acute (Immediate): Under normal conditions of use, no health effects are expected.

Chronic (Delayed): No data available.

Mutagenic Effects

No data available.

Carcinogenic Effects

Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.

	CAS	IARC	NTP
Silica, crystalline - quartz	14808-60-7	Group 1-Carcinogenic	Known Human Carcinogen

Reproductive Effects

Prodiamine: Fetal toxicity at high dose levels (rats); development and maternal toxicity observed at 1 g/kg/day.

SECTION 12: Ecological information

12.1. Toxicity

Prodiamine (29091-21-2)	
Aquatic Toxicity-Fish	96 Hours LC50 Rainbow Trout 0.83 mg/L 96 Hours LC50 Bluegill Sunfish 0.55 mg/L
Aquatic Toxicity-Crustacea	48 hours LC50 Water Flea Daphnia magna 0.66 mg/L

12.2. Persistence and degradability

Prodiamine is persistent in soil.

12.3. Bioaccumulative potential

Prodiamine does not bioaccumulate.

12.4. Mobility in soil

Prodiamine (29091-21-2)	
Ecology - soil	Half-life in soil is <57 days. Immobile in soil.

12.5. Other adverse effects

Other information : Avoid release to the environment.

Revision date: 02/02/2022 EN (English US) 4/5

Safety Data Sheet

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

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.

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 inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Wear: Long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant waterproof gloves. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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.

Revision date: 02/02/2022 EN (English US) 5/5