

SAFETY DATA SHEET
SHAW'S TURF FOOD BROADLEAF
WEED CONTROL 1580/Viper

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Revision: 10/312023

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 228-413-8378
Product Name: Shaw's Turf Food Broadleaf Weed Control 1580/Viper
Reference #: Knox Fertilizer Company Inc.
Company Name: P.O. Box 248
Knox, IN 46534

Emergency Contact: Chemtrec (800)424-9300
Information: Product Related (574)772-6275

Part Number: 228-413-8378

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4
Skin Sensitization, Category 1
Aquatic Toxicity (Chronic), Category 3
Serious Eye Damage/Eye Irritation, Category 2A
Acute Toxicity: Inhalation, Category 4



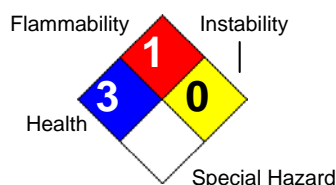
GHS Signal Word: **Warning**

GHS Hazard Phrases: Harmful if swallowed.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.
Causes serious eye irritation.
Harmful if inhaled.

GHS Precaution Phrases: Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Take off contaminated clothing and wash it before reuse.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid release to the environment.
Use only outdoors or in a well-ventilated area.
Keep out of reach of children.

GHS Response Phrases: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs, seek medical advice/attention.
IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER/doctor/physician if you feel unwell.

GHS Storage and Disposal Phrases: Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard Rating System:**Potential Health Effects
(Acute and Chronic):**

May cause respiratory tract irritation.
Not expected to be a chronic hazard.

Inhalation:

May be harmful if inhaled. Inhalation of dust may cause respiratory tract irritation.

Skin Contact:

May cause skin irritation. Allergic reactions are possible. May be harmful if absorbed through the skin.

Eye Contact:

May cause eye irritation. Dust may cause mechanical irritation.

Ingestion:

May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
57-13-6	Urea	0 -92.0 %
NA	Other Non-Hazardous Ingredients	4.0%-90.0 %
7447-40-7	Potassium chloride	
1928-43-4	2,4-Dichlorophenoxyacetic acid 2-ethylhexyl ester	1.077 %
16484-77-8	(+)-(R)-2-(2-methyl-4-chlorophenoxy) propionic acid	0.287 %
94-75-7	2,4-Dichlorophenoxyacetic acid	0.146 %
1918-00-9	Dicamba acid (3,6-Dichloro-o-anisic acid)	0.07 %
16389-88-1	Dolomitic limestone	2.0 -85.0 %

4. FIRST AID MEASURES

Emergency and First Aid**Procedures:**

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. If not breathing, give artificial respiration.

In Case of Inhalation:**In Case of Skin Contact:**

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse. Wash off with soap and plenty of water.

In Case of Eye Contact:

Remove contact lenses if present and easy to do. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid if irritation develops and persists.

In Case of Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. For further assistance, contact your local Poison Control Center 1-800-222-1222.

Note to Physician:

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt:	No data.	
Explosive Limits:	LEL: No data.	UEL: No data.
Autoignition Pt:	No data.	
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.	
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Water runoff can cause environmental damage. Dike and collect water used to fight fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to surrounding fire conditions. Decomposes at high temperatures, resulting in toxic and corrosive products.	
Flammable Properties and Hazards:	No data available.	

6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains or waterways. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Avoid generating dusty conditions. Provide ventilation.
Steps To Be Taken In Case Material Is Released Or Spilled:	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Do not let this chemical enter the environment. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Keep container tightly closed. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash hands thoroughly after handling. Wash clothing before reuse.
Precautions To Be Taken in Storing:	Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances, inaccessible to children and domestic animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
57-13-6	Urea	PEL: PNOR 15 Total 5 Resp. mg/m3	TLV: PNOS 10 Inhalable 3 Resp. mg/m3	No data.
NA	Other Non-Hazardous Ingredients	No data.	No data.	No data.
7447-40-7	Potassium chloride	PEL: PNOR 15 Total 5 Resp. mg/m3	TLV: PNOS 10 Inhalable 3 Resp. mg/m3	No data.
1928-43-4	2,4-Dichlorophenoxyacetic acid 2-ethylhexyl ester	No data.	No data.	No data.
16484-77-8	(+)-(R)-2-(2-methyl-4-chlorophenoxy) propionic acid	No data.	No data.	No data.
94-75-7	2,4-Dichlorophenoxyacetic acid	PEL: 10 mg/m3	TLV: 10 mg/m3	No data.
1918-00-9	Dicamba acid (3,6-Dichloro-o-anisic	No data.	No data.	No data.

acid)

16389-88-1 Dolomitic limestone

PEL: 15 Total 5 Respirable
mg/m3TLV: 10 total 5 Respirable
mg/m3

No data.

Respiratory Equipment (Specify Type):	A respiratory protection program that meets OSHA's 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [] Liquid [X] Solid
Appearance and Odor:	Various Colors.
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate:	No data.
Solubility in Water:	No data.
Percent Volatile:	No data.

10. STABILITY AND REACTIVITY

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Incompatible materials, dust generation, Excess heat.
Incompatibility - Materials To Avoid:	Strong acids, Strong acids, Strong bases, Strong oxidizing agents, Sodium hypochlorite, Calcium hypochlorite, Hydrogen flouride, Sodium nitrate, Nitrosyl Perchlorate, DICHROMATES, Liquid chlorine, Nitrates, Permanganates, Chromyl chloride, No significant incompatibilities identified with common materials and contaminants.
Hazardous Decomposition Or Byproducts:	Oxides of phosphorus, Nitrogen oxides (NOx) and ammonia (NH3), Carbon monoxide, Oxides of nitrogen, Carbon dioxide, Oxides of sulfur, Oxides of potassium, Hydrogen cyanide, Hydrogen chloride.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	CAS# 1928-43-4: 2,4-Dichlorophenoxyacetic acid 2-ethylhexyl ester:
	Acute toxicity, LD50, Oral, Rat, 896.0 MG/KG.
	Acute toxicity, LD50, Dermal, Rabbit, 2000. MG/KG.
	Acute toxicity, LC50, Inhalation, Rat, 5.400 MG/L, 4 H.
	CAS# 16484-77-8: (+)-(R)-2-(2-methyl-4-chlorophenoxy) propionic acid:
	Acute toxicity, LD50, Oral, Rat, 1166. MG/KG.
	Acute toxicity, LD50, Dermal, Rabbit, 4000. MG/KG.
	CAS# 94-75-7: 2,4-Dichlorophenoxyacetic acid:
	Acute toxicity, LD50, Oral, Rat, 699.0 MG/KG.
	Acute toxicity, LD50, Dermal, Rabbit, 2000. MG/KG.
Carcinogenicity/Other Information:	Acute toxicity, LC50, Inhalation, Rat, 1.790 MG/L, 4 H.
	CAS# 1918-00-9: Dicamba acid (3,6-Dichloro-o-anisic acid):
	Acute toxicity, LD50, Oral, Rat, 1707. MG/KG.
	Acute toxicity, LD50, Dermal, Rat, 2000. MG/KG.
	Acute toxicity, LC50, Inhalation, Rat, 9.600 MG/L, 4 H.
	IARC Group 2B: Limited evidence for carcinogenicity in humans. 2,4-D and MCPP did not show carcinogenic potential in lifetime feeding studies of rats and mice. According to the U.S. EPA 2,4-D and dicamba are not classified as human carcinogens.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Additional studies are needed to determine whether the cell transforming activity of quartz is related to its carcinogenic potential.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
57-13-6	Urea	n.a.	n.a.	n.a.	n.a.
NA	Other Non-Hazardous Ingredients	n.a.	n.a.	n.a.	n.a.
7447-40-7	Potassium chloride	n.a.	n.a.	n.a.	n.a.
1928-43-4	2,4-Dichlorophenoxyacetic acid 2-ethylhexyl ester	n.a.	n.a.	n.a.	n.a.
16484-77-8	(+)-(R)-2-(2-methyl-4-chlorophenoxy) propionic acid	n.a.	n.a.	n.a.	n.a.
94-75-7	2,4-Dichlorophenoxyacetic acid	n.a.	2B	A4	n.a.
1918-00-9	Dicamba acid (3,6-Dichloro-o-anisic acid)	n.a.	n.a.	n.a.	n.a.
16389-88-1	Dolomitic limestone	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information:	Drift or runoff may adversely affect nontarget plants. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters nor pour the washwater on the ground; spray or drain over a large area away from wells and other water sources.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
RCRA U-Series: None listed.

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging.
Dispose of as unused product.

14. TRANSPORT INFORMATION

GHS Classification: Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed
Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction
Aquatic Toxicity (Chronic), Category 3 - Harmful to aquatic life with long lasting effects
Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation
Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.
DOT Hazard Class:
UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

15. REGULATORY INFORMATION

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
57-13-6	Urea	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory, 8A CAIR; CA PROP.65: No; CA TAC, Title 8: No; WI Air: No
NA	Other Non-Hazardous Ingredients	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; WI Air: No
7447-40-7	Potassium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: No; WI Air: No
1928-43-4	2,4-Dichlorophenoxyacetic acid 2-ethylhexyl ester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; WI Air: No
16484-77-8	(+)-(R)-2-(2-methyl-4-chlorophenoxy) propionic acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; WI Air: No
94-75-7	2,4-Dichlorophenoxyacetic acid	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Inventory, 4 Test; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; WI Air: Yes
1918-00-9	Dicamba acid (3,6-Dichloro-o-anisic acid)	CAA HAP,ODC: No; CWA NPDES: Yes; TSCA: No; CA PROP.65: No; CA TAC, Title 8: Title 8; WI Air: No
16389-88-1	Dolomitic limestone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: No; WI Air: No

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 skin, eyes, or clothing. Wear long pants, long-sleeved shirt, socks and shoes when applying this product. After using this product, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

16. OTHER INFORMATION

Revision Date: 10/31/2023

Additional Information About No data available.

This Product:

Company Policy or Disclaimer: This Safety Data Sheet (SDS) is to be used as a reference to address the safe handling of the product. All statements, technical information and recommendations contained herein are to the best of our knowledge, reliable and accurate. This SDS is not intended to make any representation as to how the product will perform when used as intended. Nothing in this SDS is intended to be a representation or warranty by the manufacturer with regard to accuracy, safety, usefulness, technical information, materials, techniques, or practices. This product is sold "AS IS" and nothing in this SDS should be deemed to be a representation or warranty of any injury, loss, or damage of any kind sustained by, or arise from, the use of this product.