

An Employee-Owned Company

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Version 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier. Product Name

TRIMEC® Crabgrass Plus Lawn Weed Killer Concentrate

Other means of identificationProduct CodePBI FP 761-5EPA Pesticide Registration Number2217-896

Recommended use of the chemical and restrictions on useRecommended UseHerbicideUses advised againstNo information available

Details of the supplier of the safety data sheet

Supplier Address PBI-Gordon Corporation P.O. Box 860350 Shawnee, KS 66286 <u>Company Name</u> PBI-Gordon Corporation P.O. Box 860350 Shawnee, KS 66286 Manufacturer PBI-Gordon Corporation P.O. Box 860350 Shawnee, KS 66286

SAFETY DATA SHEET

Emergency telephone number

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2B
Chronic Aquatic Toxicity	Category 3

Label elements

Emergency Overview

Signal word Warning

Hazard statements

Causes eye irritation
Harmful to aquatic life with long lasting effects

Appearance Liquid

Physical state Liquid

Odor Mild Sweet

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF ON SKIN: Wash with plenty of water and soap If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Have the product label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.

Other information

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS-No	Weight-%
2,4-D, dimethylamine salt	2008-39-1	6.42
Quinclorac	84087-01-4	2.13
Dimethylamine dicamba	2300-66-5	0.6
Trade Secret	Trade secret	0-1*
Trade Secret	Trade secret	0-1*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.			
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.			
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms persist, call a physician.			
Inhalation	Remove to fresh air. If symptoms persist, call a physician.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.			
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).			
Most important symptoms and effe	Most important symptoms and effects, both acute and delayed			
Symptoms	No information available			
Indication of any immediate medica	al attention and special treatment needed			
Note to physicians	Treat symptomatically.			
	5. FIRE-FIGHTING MEASURES			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Unsuitable extinguishing media	No information available.			
Specific hazards arising from the	In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead			

<u>chemical</u>	to release of irritating and toxic gases and vapors.	
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.	
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
	6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective ec	uipment and emergency procedures	
Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.	
Environmental precautions		
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas Do not flush into surface water or sanitary sewer system Prevent further leakage or spillage if safe to do so Prevent product from entering drains See Section 12 for additional ecological information	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containme	ent and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.	
	7. HANDLING AND STORAGE	
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse.	

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2,4-D, dimethylamine salt 2008-39-1	TWA: 10 mg/m ³ inhalable fraction TWA: 10 mg/m ³ S*		IDLH: 10 mg/m ³ , TWA: 10 mg/m ³
Trade Secret	STEL: 15 ppm TWA: 5 ppm	TWA: 10 ppm TWA: 18 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 18 mg/m ³	IDLH: 500 ppm TWA: 10 ppm TWA: 18 mg/m³

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Hand protection	Chemical resistant gloves.
Skin and body protection	Wear long-sleeved shirt, long pants, socks and shoes.
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.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

information on basic physical and	
Physical state	Liquid
Appearance	Liquid
Color	Dark brown
Odor	Mild Sweet
Odor threshold	No information available
Property_	Values
рН	8.2
Melting point/freezing point	<35 °F
Boiling point / boiling range	100 °C / 212 °F
Flash point	> 100 °C / 212 °F
Evaporation rate	< 1
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor pressure	<17 mm Hg
Vapor density	>1
Specific Gravity	1.0339
Water solubility	Soluble in water
Solubility in other solvents	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
-	
Other Information	

Other Information Liquid Density Bulk density

8.62 pounds/gallon No information available

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Stability

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

None known None known

None known None known None known Stable under recommended storage conditions

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Will not occur.

Conditions to avoid

Keep out of reach of children.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

May emit toxic fumes under fire conditions. Hydrogen chloride. Nitrogen oxides (NOx). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	
Inhalation	May cause irritation.
Eye contact	Causes eye irritation.
Skin contact	May cause slight irritation.
Ingestion	May be harmful if swallowed.

Component Information

Chemical name	Oral LD50 Dermal LD50		Inhalation LC50
2,4-D, dimethylamine salt	= 625 mg/kg (Rat)	= 2115 mg/kg (Rabbit)	-
2008-39-1			
Quinclorac	= 2190 mg/kg (Rat)	> 2 g/kg (Rat)	-
84087-01-4			
Dimethylamine dicamba	= 1267 mg/kg (Rat) = 2629 mg/kg	> 2 g/kg (Rabbit) > 2000 mg/kg (-
2300-66-5	(Rat)	Rabbit)	
Trade Secret	= 698 mg/kg (Rat)	= 3900 mg/kg (Rat)	= 4540 ppm (Rat)6 h
Trade Secret	= 10 g/kg (Rat) = 1658 mg/kg (-	-
	Rat)		

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity - Product Information

Unknown Toxicity 9 % of the mixture consists of ingredient(s) of unknown toxicity

LD50 Oral	2721 mg/kg Rat-female
LD50 Dermal	> 5000 mg/kg (rat)
LC50 Inhalation (DUST)	> 2.05 mg/L (rat)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause skin irritation.		
Serious eye damage/eye irritation	Causes eye irritation.		
Respiratory or skin sensitization	Not a skin sensitizer.		
Germ cell mutagenicity	No information available.		
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.		

Chemical name	ACGIH	IARC	NTP	OSHA	
2,4-D, dimethylamine salt 2008-39-1	-	Group 2B	-	-	
Legend IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans					
Reproductive toxicity	No information	No information available.			
STOT - single exposure	No informatic	No information available.			
STOT - repeated exposu	re No informatio	No information available.			
Target Organ Effects	Eyes, Respir	Eyes, Respiratory system, Skin.			

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trade Secret	9: 96 h Pseudokirchneriella subcapitata mg/L EC50	210: 96 h Poecilia reticulata mg/L LC50 static 111 - 125: 96 h Oncorhynchus mykiss mg/L LC50 120: 96 h Oncorhynchus mykiss mg/L LC50 static 127 - 349: 96 h Poecilia reticulata mg/L LC50 semi-static 396: 96 h Brachydanio rerio mg/L LC50 static	EC50 = 26.8 mg/L 15 min	88.7: 48 h Daphnia magna Straus mg/L EC50
Trade Secret	1.01: 72 h Desmodesmus subspicatus mg/L EC50	59.8: 96 h Pimephales promelas mg/L LC50 static 41: 96 h Lepomis macrochirus mg/L LC50 static	-	610: 24 h Daphnia magna mg/L EC50

Persistence and degradability No information available.

Bioaccumulation

No information available.

Other adverse effects

Toxic to fish and aquatic invertebrates.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products	d Disposal should be in accordance with applicable regional, national and local laws and regulations.			
Contaminated packaging	Do not reuse empty containers.			
	14. TRANSPORT INFORMATION			
Note:	Products under 180 gallons not regulated by DOT. Below are designations for products over 180 gallons. See RQ			
DOT UN/ID no. Proper shipping name Hazard class Packing group Reportable Quantity (RQ) Special Provisions Description	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9 III 2,4-D, dimethylamine salt: RQ (lb)= 1558.00=180 gallons 8, 146, 173, 335, IB3, T4, TP1, TP29 UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, dimethylamine salt), 9, III			
TDG UN/ID no. Proper shipping name Hazard class Packing group Description	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, dimethylamine salt), 9, III			
MEX UN/ID no. Proper shipping name Hazard class Special Provisions Packing group Description	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9 274, 331, 335 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, dimethylamine salt), 9, III			
ICAO (air) UN/ID no. Proper shipping name Hazard class Packing group Special Provisions Description	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9 III A97, A158, A197 UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, dimethylamine salt), 9, III			
IATA UN number UN proper shipping name Transport hazard class(es) Packing group Special Provisions Description	Limited quantity applies with an inner packaging less than 5 L or gross package weight less than 30 kg. UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9 III A97, A158, A197 UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, dimethylamine salt), 9, III			
IMDG UN number UN proper shipping name	Limited quantity applies with an inner packaging less than 5 L or gross package weight less than 30 kg. UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.			

Transport hazard class(es)	9
Packing group	
EmS-No.	F-A, S-F
Special Provisions	274, 335, 969
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D, DIMETHYLAMINE SALT), 9, III

15. REGULATORY INFORMATION

U.S. EPA Label Information

EPA Pesticide Registration Number 2217-896

Federal Insecticide, Fungicide, Rodenticide Act Regulations

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:

EPA Pesticide Label

CAUTION KEEP OUT OF REACH OF CHILDREN PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

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. Environmental Hazards: This pesticide is toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

International Inventories	
TSCA	Not Listed
DSL/NDSL	Not Listed
EINECS/ELINCS	Not Listed
ENCS	Not Listed
IECSC	Not Listed
KECL	Not Listed
PICCS	Not Listed
AICS	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Trade Secret	1000 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
2,4-D, dimethylamine salt 2008-39-1	100 lb	-
Trade Secret	1000 lb	-

US State Regulations

U.S. State Right-to-Know Regulations

US State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Dimethylamine dicamba 2300-66-5	Х	-	-
Trade Secret	Х	X	X

16. OTHER INFORMATION

NFPA_	Health hazards 1	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection X

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of PBI Gordon Corporation's knowledge, information and belief at the date of this publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process, unless specified in the text. PBI GORDON CORPORATION MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Each user is also responsible for evaluating the conditions of use and designing the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. PBI Gordon Corporation assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

End of Safety Data Sheet