

# SAFETY DATA SHEET

**Company Name** 

PBI Gordon Corporation

1217 West 12th Street

Kansas City, MO 64101

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Version 1

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

Product identifier Product Name

EMBARK® 2-S Plant Growth Regulator

Other means of identificationProduct CodePBI FP 686-6EPA Pesticide Registration Number2217-759

Recommended use of the chemical and restrictions on useRecommended UseGrowth regulator.Uses advised againstNo information available.

Details of the supplier of the safety data sheetSupplierManufacturerPBI Gordon CorporationPBI Gordon Corporation1217 West 12th Street1217 West 12th StreetKansas City, MO 64101Kansas City, MO 64101

Emergency telephone number Emergency Telephone

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)

#### Label elements

 Emergency Overview

 Warning

 Appearance Liquid
 Physical state Liquid
 Odor Odorless

#### 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

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight-%		
Diethanolamine salt of mefluidide	53780-36-2	28		
* The exact percentage (concentration) of composition has been withheld as a trade secret				

# 4. FIRST AID MEASURES

First	aid	measures

General advice	If symptoms persist, call a physician.			
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.			
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. 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. Call a physician. Do NOT induce vomiting.			
Self-protection of the first aider	Use personal protective equipment as required.			
Most important symptoms and effe	ects, both acute and delayed			
Symptoms	No information available.			
Indication of any immediate medical 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.

## Specific hazards arising from the chemical

No information available.

#### Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

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 equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.
Environmental precautions	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.
Methods and material for containm	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.

Methods for cleaning up	Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. 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	Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.				
Conditions for safe storage, includi	ng any incompatibilities				
Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.				
Incompatible materials	Acids.				
8. EXPOSURE CONTROLS/PERSONAL PROTECTION					
Control parameters					
Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupation exposure limits established by the region specific regulatory bodies					
Appropriate engineering controls					
Engineering Controls	Ensure adequate ventilation, especially in confined areas.				
Individual protection measures, suc	th as personal protective equipment				
Eye/face protection	Tight sealing safety goggles. Face protection shield.				
Skin and body protection	Wear protective gloves and protective clothing.				
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	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.				

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Liquid Dark brown	Odor Odor threshold	Odorless No information available
<u>Property</u> pH Melting point/freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	<u>Values</u> 8.0-9.0 <35 °F 100 °C / 212 °F > 100 °C / > 212 °F < 1 No information available	<u>Remarks • Method</u>	

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific Gravity
Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Oxidizing properties

**Other Information** 

Density

9.1-9.3 pounds/gallon

No information available No information available

No information available

20 mm Hg

Soluble in water No information available No information available No information available No information available No information available

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# **10. STABILITY AND REACTIVITY**

Reactivity No data available

#### **Chemical stability** Stable.

**Possibility of Hazardous Reactions** None under normal processing.

**Hazardous polymerization** Will not occur.

**Conditions to avoid** No information available.

Incompatible materials Acids.

**Hazardous Decomposition Products** 

None known.

# **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Product Information					
Inhalation	May cause irritation of respiratory tract.				
Eye contact	Contact with eyes may cause irritation.				
Skin Contact	May cause irritation.				
Ingestion	May cause irritation.				
Information on toxicological effects					
Symptoms	No information available.				
Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Sensitization Germ cell mutagenicity	No information available. No information available.				

#### Carcinogenicity

Reproductive toxicity STOT - single exposure STOT - repeated exposure Chronic toxicity Aspiration hazard

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity28% of the mixture consists of ingredient(s) of unknown toxicityOral LD50> 5000 mg/kg body weightDermal LD50> 20000 mg/kg body weightInhalation LC50> 8.5 mg/L

No information available.

No information available.

No information available.

No information available.

Avoid repeated exposure.

No information available.

# **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

28% of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Persistence and degradability

No information available.

## **Bioaccumulation**

No information available.

#### Other adverse effects

No information available

## **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated packaging** Do not reuse container, unless specified by the manufacturer.

# 14. TRANSPORT INFORMATION

#### DOT

Description

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

Inhibitors, Modifiers, or Regulators, Plant Growth - NMFC #101685

In our current available sizes, this product does not qualify as a Hazardous Material.

# **15. REGULATORY INFORMATION**

#### U.S. EPA Label Information EPA Pesticide Registration Number 2217-759

#### 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 the reach of children. Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed.

#### 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

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Diethanolamine salt of										Х
mefluidide										

#### **US Federal Regulations**

#### SARA 313

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

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## **US State Regulations**

## **U.S. State Right-to-Know Regulations**

#### International Regulations

Mexico - Grade

Moderate risk, Grade 2

16. OTHER INFORMATION						
NFPA	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical		
HMIS_	Health hazards 2	Flammability 1	Physical hazards 0	Properties - 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