

# SAFETY DATA SHEET

Issue Date 09-Jan-2015

Product identifier

Revision Date 19-Jun-2017

Version 2

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

Product Name	EMBARK® 2-S IVM	
Other means of identification		
Product Code	PBI FP 6861078	
EPA Pesticide Registration Nu	imber 2217-759	
Product Size	4/1 U. S. Gal.	
Recommended use of the che	mical and restrictions on use	
Recommended Use	Growth regulator.	
Uses advised against	No information available.	
Details of the supplier of the s	afety data sheet	
Supplier	Manufacturer	Company Name
PBI Gordon Corporation	PBI Gordon Corporation	PBI Gordon Corporation
1217 West 12th Street	1217 West 12th Street	1217 West 12th Street
Kansas City, MO 64101	Kansas City, MO 64101	Kansas City, MO 64101
Emergency telephone number	-	•

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

#### Classification

#### OSHA Regulatory Status

**Emergency Telephone** 

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. Number	Weight %		
	Diethanolamine salt of mefluidide	53780-36-2	28		
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\* 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 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.

#### 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 containment and cleaning up				
Methods for containment	Prevent further leakage or spillage if safe to do so.			

Methods for cleaning up	<b>hods for cleaning up</b> 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 STO	RAGE				
Precautions for safe handling						
Advice on safe handling	Use with local exhaust ventilation. Us breathe dust/fume/gas/mist/vapors/sp		oment as required. Do not			
Conditions for safe storage, includi	ng any incompatibilities					
Storage Conditions	Keep containers tightly closed in a co containers.	ol, well-ventilated place. K	eep in properly labeled			
Incompatible materials	Acids.					
8. EX	POSURE CONTROLS/PERSON	NAL PROTECTION				
Control parameters						
Exposure Guidelines	This product, as supplied, does not co					
Appropriate engineering controls	exposure limits established by the reg	jion specific regulatory boo	lies			
Engineering Controls	Ensure adequate ventilation, especial	ly in confined areas.				
Individual protection measures, such	ch as personal protective equipment					
Eye/face protection	Tight sealing safety goggles. Face pro	otection 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 smok clothing is recommended.	e. Regular cleaning of equ	ipment, work area and			
g	. PHYSICAL AND CHEMICAL	PROPERTIES				
Information on basic physical and o	chemical properties					
Physical state Appearance Color	Liquid Liquid Dark brown	Odor Odor threshold	Odorless No information available			

Remarks • Method

<u>Property</u> pH Melting point/freezing point	<u>Values</u> 8.0-9.0 <35 °F
Boiling point / boiling range	100 °C / 212 °F
Flash point	> 100 °C / > 212 °F
Evaporation rate	< 1
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	20 mm Hg

No information available 1.11 Soluble in water No information available No information available No information available No information available No information available

#### **Other Information**

Density

9.1-9.3 pounds/gallon

### Revision Date 19-Jun-2017

## **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 Acids.

Incompatible materials Acids.

#### Hazardous Decomposition Products None known.

## **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure				
Product Information				
Inhalation	No data available.			
Eye contact	No data available.			
Skin Contact	No data available.			
Ingestion	No data available.			
Information on toxicological effects	<u>.</u>			
Symptoms	No information available.			
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure	No information available. No information available. No information available. No information available.			

STOT - repeated exposure Chronic toxicity Aspiration hazard	No information available. Avoid repeated exposure. No information available.
Numerical measures of toxicity - F	Product Information
Unknown Toxicity Oral LD50 Dermal LD50 Inhalation LC50	<ul> <li>28 % of the mixture consists of ingredient(s) of unknown toxicity</li> <li>&gt; 5000 mg/kg body weight</li> <li>&gt; 20000 mg/kg body weight</li> <li>&gt; 8.5 mg/L (4 Hr.)</li> </ul>

## **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.

#### **<u>Bioaccumulation</u>** 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**

#### PBI FP 6861078 EMBARK® 2-S IVM

<u>NFPA</u>	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical
HMIS	Health hazards 2	Flammability 1	Physical hazards 0	Properties - Personal protection X

#### **Disclaimer**

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End of Safety Data Sheet