



**1. PRODUCT IDENTIFICATION:  
PRODUCT USE:**

DARAMEND® D2014-O  
Bioremediation Product

**MANUFACTURER:**

Adventus Americas Inc.  
2871 W. Forest Rd, Suite 2  
Freeport, IL  
61032

**EMERGENCY PHONE:**

Office Hours: 815-235-3503  
After Hours: 630-309-1175

**TRANSPORTATION OF DANGEROUS GOOD CLASSIFICATION:**

Not Regulated

**WHMIS CLASSIFICATION:**

Not Regulated

**CONTAINMENT HAZARD:**

Any vessel that contains wet DARAMEND or DARAMEND and water must be vented due to potential pressure build up from fermentation gasses.

**2. INGREDIENTS**

CHEMICAL NAME:	CAS#	LD50 (mg/Kg)	% Composition
Organic Amendment	N/D	N/E	80% - 90%
Soy Lecithin	N/D	N/E	1% - 5%
Calcium Peroxide	1305-79-9	Min.2000 mg/kg, rat	6% - 8%
Calcium Hydroxide	1305-62-0	Min.2000 mg/kg, rat	2% - 3%

**3. PHYSICAL DATA**

Physical state.....	Solid	Freezing point (Deg.C).....	N/A
Odour threshold.....	N/A	Boiling point (Deg.C).....	N/A
Specific gravity.....	N/A	Vapour pressure.....	N/A
Density.....	0.77 Kg/L	Vapour density (air=1).....	N/A
pH.....	N/A	Evaporation rate.....	N/A
Solubility in water.....	N/A	Coeff. of water/oil.....	N/A
Appearance & odour.....	Yellow/Brown Flakes		

**4. FIRE AND EXPLOSION HAZARD DATA**

**CONDITIONS OF FLAMMABILITY:**

Non Flammable

**EXTINGUISHING MEDIA:**

WATER	FOAM	CO <sub>2</sub>
X	X	X

**OTHER:** Dry Chemical



**SPECIAL PROCEDURES:**

Use media applicable to primary cause of fire. Firefighters should wear SCBA.

**FLASH POINT (Deg. C PMCC):** None

	<b>LOWER</b>	<b>UPPER</b>
<b>FLAMMABLE LIMITS IN AIR % BY VOLUME:</b>	N/A	N/A
<b>AUTO IGNITION TEMP (Deg. C):</b>	N/A	
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	N/D	

**EXPLOSION DATA:**

Sensitivity to Impact.....None known  
 Sensitivity to Static Discharges.....Not sensitive (minimum spark ignition energy >8J, determined by analysis of D6386)  
 Relative Explosion Hazard Rating.....Weak

**5. HAZARDS IDENTIFICATION**

**Emergency overview**

Oxidizing agent, contact with other material may cause fire. Under fire conditions this material may decompose and release oxygen that intensifies fire.

**Potential Health Effects:**

- General.....Irritating to mucous membrane and eyes.
- Inhalation.....Irritating to respiratory tract.
- Eye contact.....May cause irritation to the eyes; Risks of serious or permanent eye lesions.
- Skin contact.....May cause skin irritation.
- Ingestion.....Irritation of the mouth and throat with nausea and vomiting.

**6. FIRST AID MEASURES**

- Inhalation.....Remove affected person to fresh air. Seek medical attention if effects persist.
- Eye contact.....Flush eyes with running water for at least 15 minutes with eyelids held open. Seek specialist advice.
- Skin contact.....Wash affected skin with soap and mild detergent and large amounts of water.



- Ingestion.....If the person is conscious and not convulsing, give 2-4 cupfuls of water to dilute the chemical and seek medical attention immediately. Do not induce vomiting.

**7. REACTIVITY DATA**

**STABILITY (NORMAL COND.):**

**Stable:** X                      **Unstable:**

**CONDITIONS TO AVOID:**

None

**CONDITIONS OF REACTIVITY:**

None

**INCOMPATIBILITY (Materials to Avoid):**

None

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Self-accelerating decomposition with oxygen release starting from 275 degrees Celsius

**8. TOXICOLOGICAL PROPERTIES**

**ROUTE OF ENTRY:**

Skin Contact  
Absorbed by skin  
Eye Contact  
Inhalation  
Ingestion

Effects of acute exposure:            None

Effects of chronic exposure:        None

Oral rat LD50 mg/kg (calc.).....>2000

Exposure limits.....N/D

Irritancy.....N/D

Sensitization.....N/D

Synergistic Mat.....None known

Carcinogenicity.....None known

Reproductive Eff.....None known

Teratogenicity.....None known

Mutagenicity.....None known

**9. PREVENTIVE MEASURES**

**PERSONAL PROTECTIVE EQUIPMENT:**

**Eye Protection:** X            **Gloves:** X            **Clothing:**

**RESPIRATORY PROTECTION:**

Use dust mask in severe conditions

**VENTILATION REQUIREMENTS:**

Not normally required

**SPILL AND LEAK PROCEDURES:**

Sweep up and return to container



**WASTE DISPOSAL:**

No special requirements necessary

**HANDLING PROCEDURES:**

Wear safety glasses for normal use. Avoid generating excessive dust, wear dust mask in severe conditions.

**STORAGE REQUIREMENTS:**

Keep dry

Any vessel that contains wet DARAMEND or DARAMEND and water must be vented due to potential pressure build up from fermentation gasses.

**SPECIAL HANDLING INFORMATION:**

Treat as a nuisance dust

**10. OTHER INFORMATION**

None

**11. PREPARATION INFORMATION**

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**Definitions:**

N/D - No Data  
A= Oral rat LD50  
D= Estimated 1000  
C= Ceiling limit

N/A - Not Applicable  
B= Oral rat  
E= Arbitrary 2000

N/E - Not Established  
LD low C= Oral LD50/LD low other animal  
F= Other route prefix

< - Less than  
> - Greater than