



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

Aerobic DARAMEND®, D2014-CO
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. Bulk (i.e., supersac) DARAMEND packages must also be kept dry to avoid risks of spontaneous combustion common to many bulk organic materials.

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 Carbonate	471-34-1	6450 mg/kg, rat	6% - 8%

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.....	0.50 Kg/L	Vapour density (air=1).....	N/A
pH.....	4.9	Evaporation rate.....	N/A
Solubility in water.....	N/A	Coeff. of water/oil.....	N/A
Appearance & odour.....	Yellow/Brown Flakes, Odourless		

4. FIRE AND EXPLOSION HAZARD DATA

CONDITIONS OF FLAMMABILITY:

Non Flammable

MATERIAL SAFETY DATA SHEET:

Aerobic DARAMEND®

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EXTINGUISHING MEDIA:

WATER	FOAM	CO₂
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

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

Prepared By:

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L4W 2A5

Date Prep./Rev.: 12/4/09

Print Date: 12/4/09

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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