

Appendix A

Product Data Sheets

Minergy LWA; Durolite Lightweight Aggregate

Bituminous & Sub-Bituminous Ash

	 C.H.E.S. - Chemical Hazard Evaluation System PRODUCT DATA SHEET	CHES#: 3432
		REVISION: 04
		DATE: 07/18/02
		SUPERCEDES: 5/23/2001

I General Information

Trade Name: MINERGY LWA; DUROLITE LIGHTWEIGHT AGGREGATE
Chemical Name: Not reported
Manufacturer: Wisconsin Electric Power Co., Minergy LWA **Information Phone No.:** 2625421440
 333 W. Everett St.
 Milwaukee, WI 53209
Identical Products: Expanded Shale, Clay, Slate
Container: SOLD IN BULK; BAGS
Use: Lightweight Aggregate Abrasive Thermal Insulation

II Ingredients

CHEMICAL	%	CAS	TLV	PEL	STEL	CEIL	TRI
ALUMINO SILICATE MINERAL							<input type="checkbox"/>
IRON MINERAL							<input type="checkbox"/>
AMORPHOUS SILICA		7631-86-9		80 mg/m3/%SiO			<input type="checkbox"/>
CRYSTALLINE SILICA	*	14808-60-7	0.05 mg/m3	0.1 mg/m3			<input type="checkbox"/>
MOST FREE SILICA IS AN AMORPHOUS GLASS							
CALCIUM SILICATE		1344-95-2	10 mg/m3	15 mg/m3			<input type="checkbox"/>

III Health Hazard Data

Routes/Effects of Acute Overexposure

Skin: Little hazard from intermittent contact.
Eyes: May cause mild irritation and a burning sensation.
Inhalation: Little hazard produced by normal operations in open or well ventilated areas.
Ingestion: Mild irritation of throat and G.I. tract.

Chronic Overexposure Effects

Chronic overexposure unlikely. Lung damage. IARC possible human carcinogen.

Warning Properties

Eye, nose, and/or throat irritation.

First Aid

Skin: Wash with mild soap and water.
Eyes: Flush with large amount of water for at least 15 minutes -- Seek medical attention, if irritation persists.
Inhalation: Remove to fresh air -- Seek medical help promptly -- Use artificial respiration, if necessary.
Ingestion: Give milk or water - DO NOT induce vomiting - Seek medical attention promptly.

IV Exposure Controls / Personal Protection

Engineering Controls

Assure adequate general dilution ventilation.

Personal Protective Equipment

Eyes/Face: Safety glasses or dust goggles recommended.
Skin: None normally required.
Respiratory: Half-face resp./HEPA if above TLV/PEL.

Personal Protective Equipment

Special Clothing or Equipment Change/wash contaminated clothing before reuse.

V Fire/Explosion Data

Flash Point (N/A)	N/A	Flammable (Explosive) Limits (%) - Upper	N/A
Auto Ignition	N/A	- Lower	N/A
Extinguishing Media	Extinguishing Agents to Avoid		
SUITABLE AGENT FOR SURROUNDING FIRE TYPE	None known.		

VI Physical Data

Boiling Point	N/A	N/A	Appearance	Brown Or Gray STONE-LIKE Pellets
Melting Point	2300 F	1260 C	Odor	None
Vapor Density	N/A		Vapor Pressure (mmHg)	N/A
Specific Gravity	> 1.3		Percent Volatile	N/A
Bulk Density	N/A		pH	> 100
Solubility (H2O)	Insoluble		Corrosivity on Metal	N/A

VII Reactivity

Chemical Stability

Stable.

Hazardous Polymerization

May not occur.

VIII Environmental/Handling/Storage
--

Spill Or Leak Procedure

Control dust, dispose of according to local regulations.

Storage Procedures

Label all unlabeled containers with a CHES label (L/N 138-2010).

Is This Product Listed Or Does It Contain Any Chemical Listed For The Following:

1. Disposal Of Product Or Any Residue A Hazardous Waste? No
Hazardous Waste Code:

2. An Extremely Hazardous Substance Under Emergency Planning And Community Right-To-Know?
Substance Name: Threshold Planning Quantity (lbs.):
No N/A

3. An EPA Hazardous Substance Requiring Spill Reporting?
Listed Substance: Reportable Quantity (lbs.):
No N/A

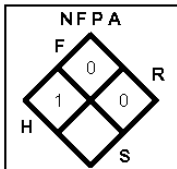
4. An OSHA Hazardous Chemical? Chemical Name: CRYSTALLINE SILICA

Does It Contain Any Materials Regulated As Hazardous Materials Or Hazardous Substances By The Department C Transportation?

Proper Shipping Name:	Not Regulated	Packaging Group:	
Hazard Class:	None	Quantity Required for Placarding:	N/A
UN/NA Code:	None		
Labels Required:	None		

IX Other

This information was based upon current scientific literature. Information may be developed from time to time which may render this document incorrect; therefore, the Wisconsin Energy Corporation nor any of its subsidiaries makes any warranties to its agents, employees, or contractors as to the applicability of this data to the user's intended purpose.



C.H.E.S. - Chemical Hazard Evaluation System
PRODUCT DATA SHEET

CHES#: 14468
REVISION: 05
DATE: 03/18/04
SUPERCEDES: 3/8/2004

I General Information

Trade Name: ASH; WISCONSIN ELECTRIC COAL COMBUSTION PRODUCTS - FLY ASH OR BOTTOM ASH
Chemical Name: Mixture
Manufacturer: We Energies
 333 W. Everett St.
 Milwaukee, WI 53201
Information Phone No.: 414-221-2345
Emergency Phone: 262-542-1440
Identical Products: Fly Ash (Eastern/Western Coal), BITUMINOUS AND SUB-BITUMINOUS ASH (ALL PLANTS)
Container: Various
Use: Fly Ash: Pozzolans in concrete; cementitious material; soil amendment; sorbents
 Bottom Ash: Construction aggregates; soil amendment
Locations: PIPP, PPPP, OCPP, VAPP, PWPP, MCPP, FO

II Ingredients

CHEMICAL	%	CAS	TLV	PEL	STEL	CEIL	TRI
AMORPHOUS SILICA	20 - 60	7631-86-9		80 mg/m3/%SiO			<input type="checkbox"/>
ALUMINUM OXIDE	10 - 33	1344-28-1	10 mg/m3	10 mg/m3			<input checked="" type="checkbox"/>
IRON OXIDE	4 - 30	1309-37-1	5 mg/m3	10 mg/m3			<input type="checkbox"/>
CRYSTALLINE SILICA**	0 - 10	14808-60-7	0.05 mg/m3	0.1 mg/m3			<input type="checkbox"/>
CALCIUM OXIDE	1 - 30	1305-78-8	2 mg/m3	5 mg/m3			<input type="checkbox"/>
AMMONIA (PPPP Ash only)	0 - 300 ppm	7664-41-7	25 ppm		35 ppm		<input type="checkbox"/>
MAGNESIUM OXIDE	0 - 4	1309-48-4	10 mg/m3	10 mg/m3			<input type="checkbox"/>
TITANIUM DIOXIDE	0 - 3	13463-67-7	10 mg/m3	10 mg/m3			<input type="checkbox"/>
SODIUM OXIDE	0 - 10	12401-86-4					<input type="checkbox"/>
POTASSIUM OXIDE	0 - 3	12136-45-7					<input type="checkbox"/>
CARBON	0 - 50	7440-44-0					<input type="checkbox"/>
MANY TRACE METALS	ALL <.1						<input type="checkbox"/>

III Health Hazard Data

Routes/Effects of Acute Overexposure

Skin May be abrasive and or irritating.
Eyes May be irritating and abrasive.
Inhalation Little hazard produced by normal operations in open or well ventilated areas. Dust may irritate the mucous membrane.
Ingestion Mild irritation of throat and G.I. tract.

Chronic Overexposure Effects

Lung damage. Specifically silicosis/**also see section IX**.

Warning Properties

Eye, nose, and/or throat irritation. Skin redness or burning.

First Aid

Skin Wash with mild soap and water.

4. An OSHA Hazardous Chemical? Chemical Name: AMORPHOUS SILICA
CRYSTALLINE SILICA**

Does It Contain Any Materials Regulated As Hazardous Materials Or Hazardous Substances By The Department C
Transportation?

Proper Shipping Name: Not Regulated

Hazard Class: None

Packaging Group: N/A

UN/NA Code: N/A

Quantity Required for Placarding: N/A

Labels Required: N/A

IX Other

**LISTED BY IARC As A Possible Human Carcinogen Based On Laboratory Animal Test DATA-No Evidence Of Human
Carcinogenicity.

Note: PIPP = Presque Isle Power Plant; PPPP= Pleasant Prairie Power Plant; OCPP= Oak Creek Power Plant;VAPP= Valley Power
Plant; MCPP= Milwaukee County Power Plant; PWPP= Port Washington Power Plant

This information was based upon current scientific literature. Information may be developed from time to time which may render
this document incorrect; therefore, the Wisconsin Energy Corporation nor any of it's subsidiaries makes any warranties to it's
agents, employees, or contractors as to the applicability of this data to the user's intended purpose.