

MSDS

4818

FLY ASH FROM TECUMSEH ENERGY CENTER

Product & Company info

---- Section 01 Chemical Product and Company Identification ----
MATERIAL SAFETY DATA SHEET

IDENTITY: FLY ASH (FROM TECUMSEH ENERGY CENTER)

MANUFACTURER'S NAME: WESTAR ENERGY, INC.

ADDRESS: 818 KANSAS AVENUE
TOPEKA, KANSAS 66612

EMERGENCY TELEPHONE NUMBER: (785) 575-6050

TELEPHONE NUMBER FOR INFORMATION: (785) 575-6345

DATE PREPARED: NOVEMBER 22, 1995

UPDATED: OCTOBER 22, 2004

PREPARED BY LYNN WIPE

Composition

---- Section 02 Composition, Information on Ingredients ---FLY
ASH IS A SUBSTANCE MADE UP OF FINE SOLID PARTICLES
OF NON COMBUSTIBLE ASH FROM SUB BITUMINOUS COAL.

COMPONENTS	OSHA PEL	ACGIH TLV	OTHER	%
CRYSTALLINE SILICA	10 MG/M3 DIVIDED BY %SIOS + 2			10 - 14%
SILICON DIOXIDE,	TOTAL DUST-15MG/M3, RESP. DUST-5MG/M3			48%
ALUMINUM OXIDE	TOTAL DUST-15MG/M3, RESP. DUST-5MG/M3			17%
CALCIUM OXIDE, CaO	5 MG/M3			16%
IRON OXIDE, Fe2O3	15 MG/M3			5%
MAGNESIUM OXIDE, MgO	15 MG/M3			4%
SODIUM OXIDE, Na2O	TOTAL DUST			3%
TITANIUM DIOXIDE, TiO2	TOTAL DUST			1%
SULFUR TRIOXIDE SO3	TOTAL DUST			1%
POTASSIUM OXIDE	TOTAL DUST			1%

NOTE: CONCENTRATIONS ARE APPROXIMATE AND MAY VARY WITH THE COAL SOURCE AND BOILER OPERATING CONDITIONS. THE INTERNATIONAL AGENCY FOR RESEARCH OF CANCER (IARC) HAS CLASSIFIED CRYSTALLINE SILICA AS A KNOWN HUMAN

CARCINOGEN.

Hazards Identification

---- Section 03 Hazards Identification -
ROUTE(S) OF ENTRY:

- (X) INHALATION
- (X) SKIN
- (X) INGESTION

HEALTH HAZARDS (ACUTE AND CHRONIC):

CHRONIC: PROLONGED OR REPEATED EXPOSURE TO FLY ASH MAY CAUSE LUNG INJURY INCLUDING SILICOSIS. CRYSTALLINE SILICA HAS BEEN CLASSIFIED BY IARC AS A KNOWN HUMAN CARCINOGEN. SOME HUMAN STUDIES INDICATE POTENTIAL FOR LUNG CANCER FRO CRYSTALLINE SILICA EXPOSURE. RISK OF INJURY DEPENDS ON DURATION AND LEVEL OF EXPOSURE. LONG TERM EXPOSURES WHICH RESULT IN SILICOSIS MAY RESULT IN ADDITIONAL HEALTH EFFECTS.

ACUTE: INHALATION OF FLY ASH MAY CAUSE MODERATE IRRITATION OF THE UPPER RESPIRATORY SYSTEM. SKIN CONTACT MAY RESULT IN MILD IRRITATION. EYE CONTACT MAY RESULT IN STRONG IRRITATION OR BURNING OF THE EYES.

CARCINOGENICITY: YES
NTP: N/A
ARC MONOGRAPHS: N/A
OSHA REGULATED: YES

First Aid Measures

---- Section 04 First Aid Measures --

INHALATION: REMOVE TO FRESH AIR. MAY CAUSE NOSE, THROAT OR LUNG IRRITATION AND CHOKING DEPENDING ON DEGREE OF EXPOSURE.

SKIN:

REMOVE MAJORITY OF FLY ASH DRY, THEN REMOVE THE RESIDUAL FLY ASH WITH RUNNING WATER. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.

EYE:

FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES, CONSULT A PHYSICIAN. PROLONGED EYE EXPOSURE MAY RESULT IN SEVERE BURNS AND DAMAGE TO THE CORNEA.

INGESTION: DRINK LARGE QUANTITY OF WATER; DO NOT INDUCE VOMITING. INGESTING LARGE AMOUNTS OF FLYASH MAY CAUSE INTESTINAL DISTRESS.

Fire Fighting Measures

---- Section 05 Fire Fighting Measures ----
FLASH POINT: NONE

FLAMMABLE LIMITS: N/A

LEL: N/A
UEL: N/A

EXTINGUISHING MEDIA: WATER

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT USE SOLID STREAM OF WATER WHEN FIGHTING FIRES; USE MIST STREAM TO REDUCE AIRBORNE DUST.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

Accidental Release

---- Section 06 Accidental Release Measures ----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT SHOULD BE WORN BY CLEANUP PERSONNEL. CLEANUP BY USING A BROOM OR SHOVEL. A GENTLE SWEEPING ACTION SHOULD BE USED TO AVOID EXCESSIVE DUST PRODUCTION. WASH REMAINDER OF RESIDUAL PRODUCT WITH RUNNING WATER. THE BULK OF SPILLED FLY ASH SHOULD BE RECOVERED FOR DISPOSAL OR RECLAMATION.

Handling & Storage

---- Section 07 Handling and Storage ----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
FLY ASH SHOULD BE STORED IN CLOSED TANKS OR CONTAINERS IN A DRY ENVIRONMENT.

OTHER PRECAUTIONS:

WHEN HANDLING FLY ASH, WEAR THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT IDENTIFIED IN SECTION 8.

Personal Protection

---- Section 08 Exposure Controls, Personal Protection ----

RESPIRATORY PROTECTION: WEAR A NIOSH APPROVED CARTRIDGE RESPIRATOR OR DISPOSABLE DUST MASK WHEN EXPOSED TO DUST ABOVE OSHA EXPOSURE LIMITS.

VENTILATION:

LOCAL EXHAUST: MAY BE REQUIRED INDOORS IF DUST PRODUCTION IS HIGH

SPECIAL: N/A

OTHER: N/A

PROTECTIVE GLOVES: RUBBER GLOVES TO PREVENT SKIN CONTACT

EYE PROTECTION: PROTECTIVE GOGGLES TO PREVENT EYE CONTACT

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

DISPOSABLE COVERALLS SHOULD BE WORN TO MINIMIZE SKIN CONTACT. A SAFETY EYE WASH SHOULD ALSO BE AVAILABLE.

WORK/HYGIENIC PRACTICES:

AVOID INHALATION, SKIN CONTACT AND EYE CONTACT WHEN HANDLING FLY ASH. CONTAMINATED CLOTHING SHOULD BE THOROUGHLY CLEANED BEFORE REUSE. HANDS SHOULD BE WASHED PRIOR TO EATING, DRINKING, OR SMOKING.

Physical/Chemical Property

---- Section 09 Physical and Chemical Properties ----

BOILING POINT: N/A

VAPOR PRESSURE (MM HG): N/A

VAPOR DENSITY (AIR=1): N/A

PH: APPROX. 8

SPECIFIC GRAVITY (H2O=1): 2.9

MELTING POINT: N/A

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: NOT READILY SOLUBLE IN WATER.

APPEARANCE AND ODOR:

A LIGHT CREAM TO GRAY COLORED POWDER WITH NO DETECTABLE ODOR

Stability & Reactivity

---- Section 10 Stability and Reactivity ----

STABILITY: UNSTABLE ()

STABLE (X)

CONDITIONS TO AVOID:

ANYTHING REACTIVE TO ALKALINE SUBSTANCES MAY BE INCOMPATIBLE WITH FLY ASH. MAY SPONTANEOUSLY RELEASE CARBON MONOXIDE GAS WHEN EXPOSED TO MOISTURE OR HEAT.

INCOMPATIBILITY (MATERIALS TO AVOID): N/A

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: () MAY OCCUR

(X) WILL NOT OCCUR

CONDITIONS TO AVOID: N/A

Toxicological Information

---- Section 11 Toxicological Information ---No
Data Available.

Ecological Information

---- Section 12 Ecological Information ----

DO NOT ALLOW LEAKS TO BE DISCHARGED INTO WATER. HARMFUL TO AQUATIC LIFE BECAUSE OF HIGHER PH AND THE ABILITY TO REACT WITH DISSOLVED OXYGEN.

Disposal Considerations

---- Section 13 Disposal Considerations ----

WASTE DISPOSAL METHOD:

RECOVERED FLY ASH SHOULD BE DISPOSED OF IN A PERMITTED WASTE MANAGEMENT FACILITY. CONSULT FEDERAL, STATE, AND LOCAL REGULATIONS FOR APPROVED PROCEDURES.

Transport information

---- Section 14 Transport Information ----
NOT A HAZARDOUS MATERIAL IN TRANSPORTATION.

Regulatory Information

---- Section 15 Regulatory Information --
ALUMINUM AND MAGNESIUM ARE SARA 313 COMPOUNDS.
SOME CONSTITUENTS IN THIS PRODUCT ARE CONSIDERED TO BE HAZARDOUS ACCORDING TO
OSHA
AND SHOULD BE INCLUDED IN THE EMPLOYER'S HAZARD COMMUNICATION PROGRAM.

Other Information

---- Section 16 Other Information ----
INFORMATION ON THIS MSDS IS BELIEVED TO BE CURRENT AND ACCURATE AT THE TIME IT
IS
PROVIDED. IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE
OF
THIS PRODUCT AND PROTECT THEIR EMPLOYEES ACCORDINGLY.

Codes/Numbers

TRI HWC

Material Code #:

Vendor Part #:

Stock Code #:

Genco Mnf. Part #:

Manufacturer: WESTAR ENERGY

MSDS Review Date: 10/28/2004

Locations

Tecumseh Energy Center