# MATERIAL SAFETY DATA SHEET West System Inc.

1.	CHEMICAL PRODUCT AND COMPANY IDEN	ITIFICATION		
	PRODUCT NAME: PRODUCT CODE: CHEMICAL FAMILY: CHEMICAL NAME: FORMULA:	420 Metal. Aluminum.	<sup>9</sup> 420™ Aluminum Powder.	
	MANUFACTURER: West System Inc. 102 Patterson Ave. Bay City, MI 48706, U.S.A. Phone: 866-937-8797 or 989-684-7286 www.westsystem.com		EMERGENCY TELEPHON Transportation CHEMTREC: Non-transportation Poison Hotline:	800-424-9300 (U.S.) 703-527-3887 (International)
2.	HAZARDS IDENTIFICATION			
		EMER	GENCY OVERVIEW	
	HMIS Hazard Rating:	Health - 1	Flammability - 2	Physical Hazards - 3
	Explosive once suspended in a dust cloud. Do heat. Nuisance dust. Possible skin and eye in	angerous when wet. ritant. Silver, gray p	Reacts violently with halogena lowder-no odor.	ted hyrdocarbons and with oxidizers to produce
	PRIMARY ROUTE(S) OF ENTRY:		Inhalation, skin contact.	
	POTENTIAL HEALTH EFFECTS:			
	ACUTE INHALATION:		High concentrations can ca	use irritation.
	CHRONIC INHALATION:		Long term exposure can ha	ave an adverse effect on lungs.
	ACUTE SKIN CONTACT:		Repeated contact can caus	se irritation.
	CHRONIC SKIN CONTACT:		Repeated contact can caus	se irritation.
	EYE CONTACT:		Can cause abrasion and irr	itation.
	INGESTION:Ingestion not anticipated under normal use co		Repeated or large dose ex	posure can result in adverse health effects.
	SYMPTOMS OF OVEREXPOSURE:		Skin irritation. Possible lun	g irritation.
	MEDICAL CONDITIONS AGGRAVATED BY	EXPOSURE:	Existing skin and lung cond	litions.
3.	COMPOSITION/INFORMATION ON HAZARD	OUS INGREDIENTS	3	
	INGREDIENT NAME		CAS#	CONCENTRATION
	Aluminum		7429-90-5	99.7%
4.	FIRST AID MEASURES			
	FIRST AID FOR EYESphysician.		Immediately flush with water	er as necessary to remove material. Consult
	FIRST AID FOR SKIN		Remove contaminated clot	hing. Wash affected area with soap and water.

FIRE FIGHTING MEASURES

MSDS# 420-11a Last Revised: 06FEB11

	FLASH POINT: ignited by static discharge.	None. Lower Explosive Limit (LEL) 40 mg/L. Airborne dust can be readily
	EXTINGUISHING MEDIA:	Class D dry chemical extinguishing agent or similar extinguishing material or halogenated agents. Do not use water.
		Wear a self-contained breathing apparatus and full-body protective gear. smoldering powder. Do not disturb the burning powder until it has had a r and generaate flammable hydrogen gas.
6.	ACCIDENTAL RELEASE MEASURES	
	scoop shovel) to transfer spilled material to container. Avoid action to	Remove potential ignition sources. Use non-sparking equipment (plastic that would generate airborne material. If a vacuum cleaner is used, only use II, Group E locations. Standard commercial industrial vacuum cleaners
7.	HANDLING AND STORAGE	
	STORAGE TEMPERATURE (MIN./MAX):	32°F (0°C) / 95°F (35°C)
	STORAGE:	Store in cool, dry area.
		Use non-sparking equipment when handling, including motors, lights, etc. such as using compressed air to clean work area. Ensure the availability of a en moving material. Wear gloves.
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION	
	EYE PROTECTION GUIDELINES: exposure to airborne material.	Safety glasses with side shields or goggles, depending on the potential for
	SKIN PROTECTION GUIDELINES:to prevent prolonged or repeated skin contact.	Use Neoprene or Nitrile impervious glove and other body-covering clothing
	RESPIRATORY/VENTILATION GUIDELINES:	If necessary, use explosion-proof ventilation, with minimum face velocity of articulate or a HEPA cartridge.
	ADDITIONAL PROTECTIVE MEASURES:measures will greatly minimize the potential for harmful exposure to	Generally speaking, working cleanly and following basic precautionary this product under normal use conditions.
	OCCUPATIONAL EXPOSURE LIMITS:  Permissible Exposure Level (PEL) or the ACGIH Guidelines for infor	This product should be treated as a nuisance dust. Refer to OSHA's mation on specific ingredients.
9.	PHYSICAL AND CHEMICAL PROPERTIES	
	PHYSICAL FORMCOLOR	
	ODOR	• .
	BOILING POINT	
	MELTING POINT/FREEZE POINTpH	
	SOLUBILITY IN WATER	11
	SPECIFIC GRAVITY	
	APPARENT DENSITY	
	VAPOR PRESSUREVAPOR DENSITY	
	% VOLATILE BY WEIGHT	
10.	STABILITY AND REACTIVITY	
10.	STABLETT AND REACTIVITY	
	STABILITY:	
	HAZARDOUS POLYMERIZATION:	
	INCOMPATIBILITIES: compounds.	Strong oxidizing agents, water, mineral acids, alkalis and halogenated
	·	
	DECOMPOSITION PRODUCTS:	Aluminum powder reacts with water, acids or alkalis to form highly

#### 11. TOXICOLOGICAL INFORMATION

No specific toxicological information available. Repeated or prolonged exposure through inhalation, skin absorption or ingestion can result in adverse health effects. Incidental short-term exposure not expected to result in adverse effects. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

#### **CARCINOGENICITY:**

NTP	No.
IARC	No.
OSHA	No

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

#### 12. ECOLOGICAL INFORMATION

This product may cause adverse environmental effects. Prevent this product from entering stormwater, waterways, or otherwise impacting plant and animal species.

#### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:**Evaluation of this product using RCRA criteria shows that this material is not a hazardous waste when in its purchased form. It is the responsibility of the user to determine proper disposal methods at the time of disposal.

Burial in a landfill may be a preferred method when conducted in accordance with federal, state and local regulations. Consult state and local solid waste authorities for guidance.

### 14. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME:	Not regulated.
TECHNICAL SHIPPING NAME:	Not applicable.
D.O.T. HAZARD CLASS:	Not applicable.
U.N./N.A. NUMBER:	
PACKING GROUP	• •

#### IATA

SHIPPING NAME:	Not regulated.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
U.N. NUMBER:	Not applicable.
PACKING GROUP:	

## 15. REGULATORY INFORMATION

OSHA STATUS:	Possible irritant.
--------------	--------------------

TSCA STATUS: Ingredients are listed on TSCA Inventory or otherwise comply with TSCA requirements.

# SARA TITLE III:

Canada WHIMIS Classification: D2B

## STATE REGULATORY INFORMATION:

The following chemicals are specifically listed or otherwise regulated by individual states. For details on your regulatory requirements you should contact the appropriate agency in your state.

# COMPONENT NAME

/CAS NUMBERCONCENTRATIONSTATE CODEAluminum100%PA, NJ, RI, MA7429-90-5

#### 16. OTHER INFORMATION

REASON FOR ISSUE:	
PREPARED BY:	, , ,
APPROVED BY:	G. M. House
TITLE:	Health, Safety & Environmental Manager

APPROVAL DATE:	February 6, 2011
SUPERSEDES DATE:	January 3, 2008
MSDS NUMBER:	420-11a

Note: The Hazardous Material Indexing System (HMIS), cited in the Emergency Overview of Section 3, uses the following index to assess hazard rating: 0 = Minimal; 1 = Slight: 2 = Moderate; 3 = Serious; and 4 = Severe.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of West System Inc. The data on this sheet is related only to the specific material designated herein. West System Inc. assumes no legal responsibility for use or reliance upon these data

MSDS# 420-11a Last Revised: 06FEB11