



**City of Seattle**  
Seattle Public Utilities

February 17, 2012

Mr. James Robert Deal  
Attorney at law  
P.O. Box 2276  
Lynnwood, WA 98036

**Re: PDR 5372—Fluoridation documents**

Dear Mr. Deal:

In response to your public disclosure request dated February 8, 2012, enclosed are the responsive documents.

With this packet your request is completed and closed.

Please call me at 206-733-9836 or e-mail [JNorman.Dizon@seattle.gov](mailto:JNorman.Dizon@seattle.gov) if you have any questions.

Sincerely,

J. Norman Dizon  
Public Disclosure Officer

Enclosures

Ray Hoffman, Director  
Seattle Public Utilities  
700 5<sup>th</sup> Avenue, Suite 4900  
PO Box 34018  
Seattle, WA 98124-4018

Tel (206) 684-5851  
Fax (206) 684-4631  
TDD (206) 233-7241  
[ray.hoffman@seattle.gov](mailto:ray.hoffman@seattle.gov)

<http://www.seattle.gov/util>

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# STRAIGHT BILL OF LADING SHORT FORM

(ORDERS NOT NEGOTIATED)

BOL#: \_\_\_\_\_  
 Date: 8/17/11  
 Prof: \_\_\_\_\_  
 PO#: \_\_\_\_\_

**Shipper:** BMS Marketing, LLC  
 Cascade Chemical  
 5500 Fox Ave.  
 Seattle, WA 98108

**Receiver:** \_\_\_\_\_  
**Trade#:** \_\_\_\_\_  
**Department#:** \_\_\_\_\_

**Commodity:** Seattle Public Utilities  
 29700 SE 257th Pl.  
 Maple Valley, WA 98038

**Send freight bill to:**  
 BMS Marketing  
 PO Box 27855  
 Salt Lake City, UT 84127-0855

Freight Charges: Third Party (must be prepaid)

Single Shipment:  Yes  No

# Packages	HT	Description of Articles	Kind of Packaging	Weight	Class / Rate
1	✓	1 TRUCK 1 UNITA FLUOROSULFONIC ACID 8.15H ENG 154  Seal# 0808054 0808053 0808052  Railcar # JRSX 20016		47,520	
TOTAL PCS: 1			TOTAL WEIGHT: 47,520		

The signed or printed name of the consignor is hereby specifically stated by the shipper to be the consignor for liability purposes. Any liability limitations, exclusions, or exceptions for this shipment may be applicable. See 49 U.S.C. 24105(c)(1)(A) and (B).

**SPECIAL INSTRUCTIONS:**

CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT CALL  
 CHEMTREC DAY OR NIGHT 1-800-424-9300  
 HERS 1-800-833-8883

NEETS undrawn: Y \_\_\_\_\_ N \_\_\_\_\_

**DATE:**

**SHIPPER:**

**Shipper Certification:**  
 I declare to certify that the above named materials are  
 properly classified, described, packaged, marked, and  
 labeled, and are in proper condition for transportation  
 according to the applicable regulations of the DOT.

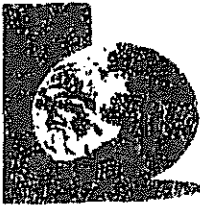
Name: Kathy Eason / Lance Jones  
 Date: 8/17/11

**CARRIER:**

**Carrier Certification:**  
 Carrier acknowledges receipt of packages and material  
 described. Carrier certifies emergency response information  
 was made available to carrier and that DOT emergency  
 response guidelines for reporting compliance in the vehicle.

Name: *[Signature]*  
 Date: \_\_\_\_\_  
 Package No: 6104 10065





# BHS Marketing

# Invoice

Please Remit Payment To:  
 BHS Marketing LLC  
 PO Box 638809  
 Cincinnati, OH 45283-6809  
 (801) 973-8232  
 Fax (501) 973-8838

DATE  
 8/22/2011

INVOICE NO.  
 19088

BILL TO:

SHIP TO:

Seattle Public Utilities  
 attn: Candace Devries  
 18015 SE Lake Youngs Rd  
 Renton, WA 98058

Seattle Public Utilities  
 29700 SE 257th Place  
 Maple Valley, WA 98038

QUANTITY						AMOUNT	
2774	Net 30 Days	hn	8/17/2011	Cascade	destination	B/L # 19088	
23 76	1TBULK	FLUOROSILICIC ACID		23 76	713.0000	16,940.88	
				<i>TONS</i>	<i>\$ 713</i>		
					<i>per</i>		
			Merchandise Total		<i>ton</i>	16 940.88	
<p><i>Okay to Pay 8/30/11</i></p> <p><i>W0654 730290 N0541004</i></p> <p><i>Candace A. Williams</i></p>							

**TOTAL** USD 16,940.88

J. R. SIMPLOT COMPANY



Received  
8/12/11

Certificate of Analysis (COA)

SIMPLOT PHOSPHATES LLC  
515 South Hwy 430  
Rock Springs, WY 82901

DATE: Friday, August 05, 2011

TO: Cascade Columbia c/o BHS Marketing

Product:	<u>Fluorosilicic Acid (FSA)</u>
Bill of Lading Number:	<u>012215RS</u>
Rail Car Number:	<u>JRSX 20016</u>
Date Analyzed:	<u>August 5, 2011</u>
Other Information:	<u>Release # 6210217.1</u>

Analysis Name	Specification		Analysis
	Max	Min	
% Assay (H <sub>2</sub> SiF <sub>6</sub> )	25%	23%	24.75
% HF	1.0%		0.66
% P2O5			0
Specific gravity @ 60°F			1.218
Lead (Pb) ppm			0.48
Arsenic ppm			10.47
Color (APHA)	200		5
Visible Suspended Matter			0



By: Brian R. Thomas

Title: Laboratory Manager

Certified to	Max. use:
NSF/ANSI 60	6 mg/L

Meets ANSI / AWWA B703a-08

**Material Safety Data Sheet**  
**J. R. Simplot Company**  
**AgriBusiness**

Trade Name: Fluorosilicic Acid (FSA)  
Registration No: None

M77415

**SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION**

Manufacturer or Formulator: J.R. Simplot Company  
P.O. Box 70013  
Boise, Idaho 83707  
Emergency Phone - Chemtrec: 1-800-424-9300

Product Name: Fluorosilicic Acid  
Common Name: Fluorosilicic Acid (FSA)

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
Hydrofluorosilicic Acid	16961-83-4	H <sub>2</sub> SiF <sub>6</sub>	Hazardous 25%	2.5 mg/m <sup>3</sup> (as F)	2.5 mg/m <sup>3</sup> (as F)

**SECTION 3 HAZARDS IDENTIFICATION**

**Ingestion:** Ingestion may cause severe corrosive effects: nausea, vomiting, abdominal pain.  
**Inhalation:** Irritation to nose, throat and respiratory system; may be corrosive to respiratory system if not immediately remedied.  
**Eye Contact:** Corrosive effect on contact: severe irritation, watering, redness and swelling of eyelids.  
**Skin Contact:** May cause corrosive effect: irritation, redness or swelling of the skin.

**SECTION 4 FIRST AID MEASURES**

**Ingestion:** Consult a physician immediately in all cases, seek medical treatment. DO NOT INDUCE VOMITING. If patient is conscious rinse mouth with water.  
**Inhalation:** Remove person from exposure area to fresh air and support breathing if necessary. Seek medical treatment.  
**Eyes:** IMMEDIATELY flush eyes with fresh running water for 15-20 minutes. Seek medical treatment.  
**Skin:** Remove contaminated clothing (under a shower if possible) and subject patient to deluge-type shower, if possible. Give continuous flow of water for 15-20 minutes to wash material off body. Treat for shock. Prompt medical consultation is essential.

**SECTION 5 FIRE FIGHTING MEASURES**

**Extinguishing Media:** Fires involving small amounts of combustibles may be smothered with suitable dry chemicals. Use water on combustibles in vicinity of this material but use care, as water applied directly to their acid results in evolution of heat and causes splattering.  
**Special Fire Fighting Procedures:** Avoid any contact with acid. Wear full protective rubber clothing, gloves, boots, wear self-contained breathing apparatus.  
**Unusual Fire and Explosion Hazards:** Material will react with certain metals to produce hydrogen gas potentially explosive situations. Thermal degradation can produce toxic and corrosive fumes of fluorides.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is released or spilled:**  
Treat with extreme caution. Zone off contaminated area. Dike area with sand or earth. Acid may be neutralized with hydrated lime (caustic soda ash may contribute soluble fluoride containing salt to the environment). Provide ventilation as needed and monitor for hydrogen reaction of some metals.

**SECTION 7 HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:**  
Store containers in cool, dry and well ventilated area away from sources of heat or ignition sources.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation Protection:** Maintain adequate ventilation at all locations where acid is handled. Store in the open or in well ventilated buildings or sheds.  
**Respiratory Protection:** An approved NIOSH acid gas respirator for HF. Under high concentrations, use self contained breathing apparatus.  
**Protective Clothing:** Neoprene or rubber gloves; suit and boots where liquid or high vapor concentration is possible.  
**Eye Protection:** Chemical splash-proof goggles and/or full face shield.  
**Other:** Safety shower and eyewash fountain required.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point:	221°F	Solubility in Water:	Soluble
Specific Gravity:	1.2 @ 70°F	Vapor Pressure:	218 mmHg @ 167°F
Appearance:	Clear, colorless to pale straw liquid.	Odor:	Pungent irritating odor
Vapor Density:	NA	Evaporation Rate:	NA
pH:	1.0		

Trade Name: Fluorosilicic Acid  
Registration No: None

M77415

**SECTION 10**

**STABILITY AND REACTIVITY**

Stability (Normal Conditions): Stable  
Conditions to Avoid: High temperature above 194°F  
Incompatibility (Material to Avoid): Strong alkalis, chlorites, combustible solids and organic peroxides.  
Hazardous Decomposition Products: Corrosive fumes of fluorides  
Hazardous Polymerization: Will not occur

**SECTION 11**

**TOXICOLOGY INFORMATION**

Toxicity by Ingestion: Oral LD<sub>50</sub> (guinea pig): 200 mg/kg  
Toxicity by Inhalation: No data available

**SECTION 12**

**ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

Waste Disposal Procedures: Neutralized waste may be disposed of in approved landfill. Consult with state and local environmental for appropriate facilities.

**SECTION 14**

**TRANSPORT INFORMATION**

Proper shipping name: Fluorosilicic Acid  
Hazard Class: 8 (corrosive materials) D.O.T. Number: UN1778  
Packaging Group: II  
Refer to 49 CFR 172.101 Hazardous Materials Table for further provisions, packaging authorizations and quantity limitations.

**SECTION 15**

**REGULATORY INFORMATION**

This product does not contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SARA Section 311-312 Hazard Categories (40 CFR 370.2):

Fire: No Sudden Release of Pressure: No  
Reactive: Yes Acute: Yes Chronic: Yes  
Unlisted Substance: Yes, Reportable quantity 100 lbs Characteristic: D002; Corrosive

**SECTION 16**

**OTHER INFORMATION**

Hazard Rating (N.F.P.A.): Health: 3 Fire: 0 Reactivity: 0 Specific: None  
This N.F.P.A. rating is a recommendation by the manufacturer using the guidelines or published evaluations prepared by the National Fire Protection Association (N.F.P.A.).

MSDS Version: 3 (revisions to sections 3, 4 and 11)

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