Material Safety Data Sheet J. R. Simplot Company AgriBusiness

Registration No: N	uorosilicic Acid (FSA) one				M17200		
SECTION 1		CHEMICAL PROD	DUCT AND	COMPANY INFORMATI	ON		
Manufacturer or Formulator:	J.R. Simplot Compa P.O. Box 70013	Simplot Company Box 70013 a, Idaho 83707)-424-9300		Product Name: Fluorosilicic Acid (FSA)			
Emergency Phone - Chemtrec	: 1-800-424-9300			Common Name. Hydro Fidorosincic Acid (HSA)			
SECTION 2		COMPOSITION	/INFORMA	TION ON INGREDIENTS			
Chemical Name and Synonym	s C.A.S. No.	Chemical Formula	WT%	TLV	PEL		
Hydrofluorosilicic Acid	16961-83-4	Haz H ₂ SiF ₆	25%	2.5 mg/m ³ (as F)	2.5 mg/m ³ (as F)		
SECTION 3	SECTION 3 HAZARDS IDENTIFICATION						
Ingestion:IngestiInhalation:IrritatioEye Contact:CorrosSkin Contact:May ca	Ingestion may cause severe corrosive effects: nausea, vomiting, abdominal pain. Irritation to nose, throat and respiratory system; may be corrosive to respiratory system if not immediately remedied. Corrosive effect on contact: severe irritation, watering, redness and swelling of eyelids. May cause corrosive effect: irritation, redness or swelling of the skin.						
SECTION 4			IRST AID M	EASURES			
Ingestion: Consu consci Inhalation: Remov Eyes: IMMEE Skin: Remov continu essent	Consult a physician immediately in all cases, seek medical treatment. DO NOT INDUCE VOMITING. If patient is conscious rinse mouth with water. Remove person from exposure area to fresh air and support breathing if necessary. Seek medical treatment. IMMEDIATELY flush eyes with fresh running water for 15-20 minutes. Seek medical treatment. 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		FIRI	e fighting	MEASURES			
Extinguishing Media: Special Fire Fighting Procedu	Fires involv on combus evolution o res: Avoid any o breathing a	Fires involving small amounts of combustibles may be smothered with suitable dry chemicals. Use wate 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. Avoid any contact with acid. Wear full protective rubber clothing, gloves, boots, wear self-contained breathing apparatus.					
Unusual Fire and Explosion Hazards: Internal will react with certain metals to produce hydrogen gas potentially explosive situation degradation can produce toxic and corrosive fumes of fluorides.							
SECTION 6		ACCIDE	NTAL RELE	ASE 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. Eve Protection:

Chemical splash-proof goggles and/or full face shield.

Safety shower and eyewash fountain required.

SECTION 9

Boiling Point: Specific Gravity: Appearance: Vapor Density: pH:

Other:

221°F 1.2 @ 70°F Clear, colorless to pale straw liquid. NA 1.0

PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Water: Vapor Pressure: Odor: **Evaporation Rate:**

Soluble 218 mmHg @ 167°F Pungent irritating odor NA

SECTION 10

Stability (Normal Conditions): Conditions to Avoid: Incompatibility (Material to Avoid): Hazardous Decomposition Products: Hazardous Polymerization:

Stable High temperature above 194°F Strong alkalies, chlorites, combustible solids and organic peroxides. Corrosive fumes of fluorides Will not occur

SECTION 11

Toxicity by Ingestion: Toxicity by Inhalation:

Oral LD₅₀ (guinea pig): 200 mg/kg No data available

SECTION 12

No Data Available

DISPOSAL CONSIDERATIONS

STABILITY AND REACTIVITY

TOXICOLOGY INFORMATION

ECOLOGICAL INFORMATION

SECTION 13 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

D.O.T. Number:

UN1778

Proper shipping name: Hazard Class: Packaging Group:

Fluorosilicic Acid 8 (corrosive materials)

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):

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Fire: No	Sudden Release of	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: 5 (revisions to product name and trade name)

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