

Safety Data Sheet


Section 1 - Product Information

Product Name: De-Iron Plus		Supplier:	Intercon Chemical Company
Product Code Number: 0419	Information Phone: 1-314-771-6600		Address: 1100 Central Industrial Drive St. Louis, MO 63110
Product use: Hard Water Laundry Sour	Emergency Contact: CHEMTREC 1-800-424-9300		

Section 2 - Hazard Identification

GHS Classification: Skin Corrosion (Category 1B), Eye Corrosive (Category 1), Corrosive To Metals (Category 1), Oral Toxicity (Category 4)

Section 2.1 - Label Elements

Hazard Pictograms 	Precautionary Statements:
Signal Word: Danger	<p>P260: Do not breathe dust/fume/gas/mist/vapors/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331+P317: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get emergency medical help. P302+P361+P354: IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes. P363: Wash contaminated clothing before reuse. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P316: Get emergency medical help immediately. P321: Specific treatment see section 4. P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P390: Absorb spillage to prevent material damage. P405: Store locked up. P406: Store in corrosive resistant container with a resistant inner liner. P501: Dispose of contents/container in accordance with local/regional/national/international regulations(to be specified).</p>
Hazard Statements:	
<p>H290: May be corrosive to metals. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage.</p>	

Section 3 - Composition

Chemical Name	CAS #	Percent w/w
Hydrofluorosilicic acid	16961-83-4	10.0 - 15.0
Ammonium bifluoride	1341-49-7	1.0 - 5.0
Oxalic acid, Dihydrate	6153-56-6	1.0 - 5.0

Section 4 - First Aid Measures

IF ON SKIN: Take off immediately all contaminated clothing. Flush with flowing water for at least 15 minutes or until slippery feeling disappears. Get medical attention for any burns that may occur. Wash contaminated clothing before reuse

IF IN EYES: Flush with flowing water for several minutes. Remove contacts if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth, Do NOT induce vomiting. Get emergency medical help.

IF INHALED: Remove to fresh air and keep at rest position comfortable for breathing.

Section 5 - Fire and Explosion Hazard Data

Flash Point:	Limits	Extinguishing Media:	Special Fire Fighting Procedures: Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH Approved or equivalent to maintain TLV. UNUSUAL FIRE & EXPLOSION HAZARD: Product will not burn.
	LEL: NA		
none	UEL: NA	Water spray or fog, foam, dry chemical, carbon dioxide or alcohol foam, if product involved.	

Section 6 - Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Stop leak if safe to do so. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Scoop up material and place in a disposal container. Absorb spillage to prevent material damage. See section 13 for advice on waste disposal.

Section 7 - Handling and Storage

Do not get in eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Handle and open container with care. Do not eat, drink or smoke when using this product. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Store locked up. Store in corrosive resistant container with a resistant inner liner. Store upright in original closed container.

Section 8 - Exposure Controls/PPE

Ingredient	OSHA PEL:	ACGIH TLV	PPE		General Hygiene Considerations:
Hydrofluorosilicic acid	3 ppm	0.5 ppm	Respiratory:	Not normally required	Handle in accordance with good industrial hygiene and safety practices. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
Ammonium bifluoride	2.5 mg/m ³	2.5 mg/m ³	Eye:	Safety glasses, Face shield	
Oxalic acid, Dihydrate	1 mg/m ³	1 mg/m ³	Skin:	Apron, Nitrile gloves	
			Ventilation:	Normal Room Ventilation	

Section 9 - Physical and Chemical Properties

Appearance	odor	odor threshold	pH	Melting Point	Boiling point	Evaporation rate	Flammability	Upper/lower flammability limits	Vapor pressure
Red liquid	Mild	NE	2	NE	212 °F	NE	NE	NA	NA
Vapor Density	Density	Specific Gravity	pH(use dil)	Solubility	Partition coefficient	Auto Ignition temp	Viscosity	Decomposition Temp	
NE	8.996	NA	NE	100%	NE	NA	water thin	NE	

Section 10 - Stability and Reactivity

Product is stable, hazardous polymerization will not occur. Incompatible with strong bases and oxidizers. If burned, normal combustion products: Carbon Dioxide, Carbon Monoxide, Nitrous Oxides.

Section 11- Toxicological Information

Ingredient	Acute toxicity (oral LD50) rat	Acute toxicity(derm. LD50)rabbit	Skin and Eye	Carcinogen	Mutagen	Reproduct. Toxicity	STOST -Single Exposure	STOST Repeated Exposure
Hydrofluosilicic acid	200 mg/kg	140mg/kg	Category 1	Not listed	No info	No info	No info	No info
Ammonium bifluoride	60 mg/kg	NE	Category 1	Not listed	No info	No info	No info	No info
Oxalic acid	375 mg/kg	NE	Eye-Cat. 1	Not listed	No info	No info	No info	No info

Section 12 - Ecological Information

Fish toxicity not available. Biodegradability not available. Toxic to aquatic life through a drop in pH to toxic levels.

Section 13 - Disposal Considerations

Products covered by this SDS, in their original form, are considered corrosive waste, waste code D002, according to RCRA (40 CFR 261). Do not allow this material to drain into sewers/water supplies. Dispose of in accordance with applicable Federal, State and Local regulations.

Section 14 - Transport Information

UN number	Basic Description(DOT)	Class	Packing Group	LTD QTY
UN3264	Corrosive liquid, acidic, inorganic, n.o.s (Contains Fluorosilicic acid)	8	II	1 L
UN number	Basic Description(IATA)	Class	Packing Group	LTD QTY
UN3264	Corrosive liquid, acidic, inorganic, n.o.s (Contains Fluorosilicic acid)	8	II	0.5 L
UN number	Basic Description(IMDG)	Class	Packing Group	LTD QTY
UN3264	Corrosive liquid, acidic, inorganic, n.o.s (Contains Fluorosilicic acid)	8	II	0.5 L

Section 15 - Regulatory Information

SARA Title 3: Does not contain reportable chemicals under sections 302, 304, or 313 of Title III of the Superfund amendments and Reauthorization Act of 1986.

CERCLA: Ammonium Bifluoride (RQ = 100 lbs). For more information consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68

California Prop 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
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Section 16 - Other Information

		HMIS: Health - 3	Flam. - 0	R - 1	PPE- D
Date Prepared: 1 Dec 2023		Prepared by: Environmental, Health and Safety Administrator.			
<p>The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with materials or in any process, unless specified in the text.</p>					
<p>Legend for Abbreviations: NA - not applicable NE - Not Established</p>					