

XI'AN FUNCTION MATERIAL GROUP CO., LTD Safety Data Sheet Iron fluoride

	1. Product and Company Identification
Trade Name:	Iron fluoride
Chemical Formula:	FeF ₃
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO.,LTD
Street:	No.69, Gazelle Valley, High-Tech Zone
City:	XI'AN
State:	Shannxi
Zip Code:	710077
Country:	China
Tel #:	+86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	Danger
	E E
Hazard Statements:	H302+H312+H332: Harmful if swallowed, in contact with skin or if
	inhaled
	H314: Causes severe skin burns and eye damage.
Precautionary Statements:	P260 Do not breathe dust or mist.
·	P264 Wash skin thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
	P301 + P312 + P330 IF SWALLOWED: Call a POISON
	CENTER/doctor if you feel unwell. Rinse mouth.
	P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce
	vomiting.
	P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off
	immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove victim to fresh air and
	keep at rest in a position comfortable for breathing. Immediately call a
	POISON CENTER or doctor/ physician.
	P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water
	for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
	P363 Wash contaminated clothing before reuse.
	P405 Store locked up.
	P501 Dispose of contents/ container to an approved waste disposal
	plant.

HMIS Health Ratings (0-4):	
Health: Flammability:	3 0
Physical:	1
	3. Composition
Chemical Family:	Ceramic
Additional Names:	Iron (III) fluoride, Ferric fluoride
Iron trifluoride (FeF ₃):	
Percentage:	100 wt%
CAS #:	7783-50-8
EC #:	232-002-4
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
·	Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
Lycs.	contact lenses if present and easy to do. Continue rinsing. Seek
	immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
	surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
-	special protection information. Keep unprotected persons away. Isolate
	spill area and provide ventilation. Use neutralizing agent. Vacuum up
	spill using a high efficiency particulate absolute (HEPA) air filter and
	place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.

	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Avoid contact with the eyes and skin
	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
	inert gas. Store away from water/moisture, strong bases, oxidizing
	agents. This product is hygroscopic. Protect from humidity and water.
	Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below
ventration.	threshold limit.
	uneshold mint.
8. Ex	sposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	1 mg/m ³ as Fe, long-term value
Special Equipment:	Properly operating chemical fume hood designed for hazardous
	chemicals and having an average face velocity of at least 100 feet per
	minute.
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
9.	Physical and Chemical Characteristics
Color	Light green
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	N/A
Water Solubility:	Slightly soluble
Boiling Point:	N/A
Melting Point:	1,000 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	3.87 g/cc
Molecular weight:	112.84 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, water/moisture, bases
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Metal oxide fume, hydrogen fluoride, iron oxides

11. Toxicological Information

Potential Health Effects:	
Eyes: Skin:	Causes serious eye damage Causes severe skin burns. Harmful in contact with skin. Danger through skin absorption.
Ingestion:	Harmful if swallowed. Swallowing will lead to strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.
Inhalation: Chronic:	Harmful if inhaled N/A
Signs & Symptoms: Aggravated Medical Conditions:	Salivation, Nausea, Abdominal pain, Vomiting, Fever, Rapid respiration. Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation N/A
Median Lethal Dose:	N/A
Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	N/A N/A N/A Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.
	13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

	14. Transportation Data
azardous:	Hazardous as powder only.
	tier state CORROSIVE 8
azard Class:	8 Corrosive substances
acking Group:	II
Number:	UN3260
oper Shipping Name:	Corrosive solid, acidic, inorganic, n.o.s. (Iron fluoride)
	15. Regulatory Information
302 Extremely Hazardous:	No
304 Reportable Quantities:	100 lbs
2 313 Toxic Chemicals:	No

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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