

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

1. Product and Company Identification	
Trade Name: Chemical Formula:	Iron Disulfide FeS ₂
Manufacturer/Supplier: Street: City:	XI'AN FUNCTION MATERIAL GROUP CO., LTD No. 69, Gazelle Valley, High-Tech Zone XI'AN
State: Zip Code:	Shaanxi 710077
Country: Tel #:	China +86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H317: May cause an allergic skin reaction H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled H410: Very toxic to aquatic life with long lasting effects
Precautionary Statements:	 P261: Avoid breathing dust/fume/gas/mist/vapors/spray P272: Contaminated work clothing should not be allowed out of the workplace P273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye protection/face protection P285: In case of inadequate ventilation wear respiratory protection P302+P352: IF ON SKIN: Wash with soap and water P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing P333+P313: If skin irritation or a rash occurs: Get medical advice/attention P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician P363: Wash contaminated clothing before reuse P391: Collect spillage P501: Dispose of contents/ container to an approved waste disposal plant
HMIS Health Ratings (0-4): Health:	2
Flammability: Physical:	1 1

3. Composition	
Chemical Family: Additional Names:	Ceramic Ferric sulfide, ferrous disulfide
Iron Disulfide (FeS ₂):	
Percentage:	100 wt%
CAS #:	12068-85-8
EC #:	235-106-8
	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. Seek medical attention.
Ingestion:	Never induce vomiting or give anything by mouth to an unconscious
Skin:	person. Rinse mouth with water. Seek medical attention. Wash affected area with mild soap and water. Remove any
	contaminated clothing. Seek medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing.
	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. Isolate spill area and provide ventilation. 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. Prevent further leakage or spillage if safe to do so. Do not let product enter drains or discharge into the environment.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling. Handle under inert gas. Avoid contac with eyes and skin.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Protect from
	moisture Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before
Work/Hygienic Maintenance:	eating and smoking. Do not blow dust off clothing or skin with
Work/Hygienic Maintenance: Ventilation:	eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	N/A	
Threshold Limit Value:	N/A	
Special Equipment:	None	
Respiratory Protection:	Dust Respirator (Low level exposure: P95 (US) or type P1 (EUEN	
	143) rated. High level exposure: OV/AG/P99 (US) or type ABEK-P2	
	(EU EN 143) rated.)	
Protective Gloves:	Rubber gloves	
Eye Protection:	Safety glasses or goggles (NIOSH (US) or EN 166 (EU) standard	
	rating).	
Body Protection:	Protective work clothing. Wear close-toed shoes and long	
	sleeves/pants.	
9. Ph	nysical and Chemical Characteristics	
Color	Dark grey/black	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	450 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	N/A N/A	
Molecular weight:	119.98 g/mol	
wolceular weight.		
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	Moisture	
Hazardous Decomposition Products:	Metal oxide fume	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	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. ACGIH: No component of this product present at levels greater than equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. 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 equal to 0.1% is identified as a carcinogen or potential carcinogen b OSHA.
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	Very toxic to aquatic life with long lasting effects.
	13. Disposal Considerations
Dispose of in accordance with local, state	e, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation
Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name:	Hazardous for transportation Hazardous for transportation 9 Miscellaneous PG III UN 3077 Environmentally hazardous substance, solid, n.o.s. (Iron disulfide)
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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.

Document Last Revised:

06/29/2017