

SCIENTIFIC EQUIPMENT & SUPPLIES

Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
	Health Hazard	
	Fire Hazard	
	Reactivity 0	See Section 15.

Ferric Ammonium Sulfate	0.41		
ommon Name Ferric Ammonium Sulfate ade Name Ferric Ammonium Sulfate		Catalog Number(s). N/A	
	CAS#	Mixture.	
United Nuclear Scientific		Not applicable.	
125 N. 8th Street Klamath Falls, OR 97601	TSCA	TSCA 8(b) inventory: Water	
Not available.	CI#	Not available.	
Ferric Ammonium Sulfate	IN CASE O		
Not applicable.		<u>S (24hr) 800-255-3924</u>	
Not available.	Product Info	ormation: 541-205-6855	
Not applicable.			
	I25 N. 8th Street Klamath Falls, OR 97601 Not available. Ferric Ammonium Sulfate Not applicable. Not available.	CAS# United Nuclear Scientific 125 N. 8th Street Klamath Falls, OR 97601 Not available. Ferric Ammonium Sulfate Not applicable. Not available. Product Info	

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Water7732-18-52) Ferric ammonium sulfate dodecahydrate7783-83-7						92 8
Toxicological Data on Ingredients Ferric ammonium sulfate dodecahydrate LD50: Not available. LC50: Not available. Section 3. Hazards Identification						
Potential Acute Health Effects	Potential Acute Health Effects Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Severe over-exposure can result in death.					e over-exposure
Potential Chronic Health Effects						

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Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.				
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation devel Cold water may be used.				
Serious Skin Contact	Not available.				
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.				
Serious Inhalation	Not available.				
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.				
Serious Ingestion	Not available.				

Section 5. Fire and Explosion Data Flammability of the Product Non-flammable. **Auto-Ignition Temperature** Not applicable. **Flash Points** Not applicable. Flammable Limits Not applicable. **Products of Combustion** Not available. Fire Hazards in Presence of Not applicable. Various Substances Explosion Hazards in Presence Non-explosive in presence of open flames and sparks, of shocks. of Various Substances **Fire Fighting Media** Not applicable. and Instructions **Special Remarks on** Not available. **Fire Hazards** Special Remarks on Explosion Not available. Hazards Section 6, Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Poisonous liquid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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Section 7. Handling a	and Storage				
Precautions	Keep locked up Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.				
Storage	Keep container tightly closed. Keep container in a c	cool, well-v	ventilated area. Do not store above 25°C (77°F).		
Section 8. Exposure	Controls/Personal Protection				
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.				
Personal Protection	Safety glasses. Lab coat.				
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.				
Exposure Limits	Ferric ammonium sulfate dodecahydrate TWA: 1 from ACGIH (TLV) [United States]				
	Consult local authorities for acceptable exposure lim	nits.			
Section 9. Physical a	nd Chemical Properties				
Physical state and appearance	Liquid.	Odor	Odorless.		
Molecular Weight	Not applicable.	Taste	Not available.		
pH (1% soln/water)	Neutral.	Color	Clear Colorless.		
Boiling Point	The lowest known value is 100°C (212°F) (Water).				
Melting Point	Not available.				
Critical Temperature	Not available.				
Specific Gravity	Weighted average: 1.03 (Water = 1)				
Vapor Pressure	The highest known value is 2.3 kPa (@ 20°C) (Water).				
Vapor Density	The highest known value is 0.62 (Air = 1) (Water).				
Volatility	Not available.				
Odor Threshold	Not available.				
Water/Oil Dist. Coeff.	Not available.				
Ionicity (in Water)	Not available.	Not available.			
Dispersion Properties	See solubility in water.				
Solubility	Easily soluble in cold water, hot water.				
Section 10. Stability	and Reactivity Data				
Stability	The product is stable.				
Instability Temperature	Not available.				
Conditions of Instability	Incompatible materials				
Incompatibility with various substances	Slightly reactive to reactive with oxidizing agents.				
Corrosivity	Non-corrosive in presence of glass.				
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Special Remarks on Reactivity	Not available.		
Special Remarks on Corrosivity	Not available.		
Polymerization	Will not occur.		
Section 11. Toxicolo	ogical Information		
Routes of Entry	Absorbed through skin. Eye contact.		
Toxicity to Animals	LD50: Not available. LC50: Not available.		
Chronic Effects on Humans	Not available.		
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation. Non-permeator by skin.		
Special Remarks on Toxicity to Animals	Not available.		
Special Remarks on Chronic Effects on Humans	Not available.		
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting and diarrhea The toxicological properties of this substance have not been fully investigated.	а.	
Section 12. Ecologic	cal Information		

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.

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DOT (Pictograms)



Section 15. Other Re	egulatory Informa	tion and	l Pictograms		
Federal and State Regulations	TSCA 8(b) inventory	r: Water			
California Proposition 65 Warnings					
Other Regulations	Not available. or of it	s ingredient	ŝ		
Other Classifications	WHMIS (Canada) Not controlled under WHMIS (Canada).				
	DSCL (EEC)	R25- Tox	tic if swallowed.	children.	and out of the reach of ent or if you feel unwell, nmediately (show the
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	1 0 0 a	National Fire Protection Association (U.S.A.)	Health	Flammability Reactivity Specific hazard
WHMIS (Canada) (Pictograms)					
DSCL (Europe) (Pictograms)	Ť				
TDG (Canada) (Pictograms)	\bigotimes				
ADR (Europe) (Pictograms)	\bigotimes				
Protective Equipment		applicable. coat.			
	Not a	applicable.			
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Safety glasses.

Section 16. Other Information

MSDS Code	F159S		
References	Not available.		
Other Special Considerations	Not available.		
		Printed 2/12/2017.	
CALL (517) 339-3587	7		

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, United Nuclear Scientific, LLC assumes no responsibility for the completeness or accuracy of the information contained herein.