WoodFinishing Enterprises



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
3 1	Health Hazard 3 Fire Hazard 0	
\sim	Reactivity 1	See Section 15.

Section 1. Chem	ical Product and Com	pany Identificat	tion			Pag	e Number: 1
Common Name/ Trade Name				Catalog Number(s).	XX362, F101	0, F1017	
			CAS#	10025 - 77 - 1 ; 7705 - 08 - 0 (anhydrous CAS no.)			
Supplier	WOODFINISHING ENTERPRISES			RTECS	NO5425000		
		29 NORTH 68 TH STREET AUWATOSA WI 53213		TSCA TSCA 8(b) inventory: products were foun Exempt from TSCA 8 (were found. m TSCA 8 (b)	
						hydr ate. H anhydrous f	ng since it is a owev er, the orm (CAS no. s listed on the ventory.
Commercial Name(s)	Not available.				CI#	Not available.	
Synonym	Iron (III) Chloride Hexahydrate; Ferric chloride, hexahydrate; Iron trichloride, hexahydrate; Iron chloride (FeCl3), hexahydrate		IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300				
Chemical Name	Ferric Chloride Hexahydrate				-		
Chemical Family	Not available.			CALL (414) 774-1724			
Chemical Formula	FeCl3.6H2O						
Supplier	WOODFINISHING ENTERPRISES 1729 NORTH 68 TH STREET WAUWATOSA WI 53213						
Section 2.Compo	sition and Information	n on Ingredients	s	-			
				Exposure Limits			
Name		CAS #	TWA	(mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Ferric chloride hexahydrate 1002		10025-77-1	1				100
Toxicological Data on Ingredients	Ferric chloride hex LD50: Not available LC50: Not available	e.					

Ferric chloride hexa	ahydrate Page Number: 2				
Section 3. Hazards Identification					
Potential Acute Health Effects	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation. Slightly hazardous in case of skin contact (permeator). The amount of tissue damage depends on length of contact. Eye contact can result in cornear damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling reddening, or, occasionally, blistering.				
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, Urinary system. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation of lung damage.				
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 immediately.				
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.				
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.				
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.				
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt o waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.				
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately Loosen tight clothing such as a collar, tie, belt or waistband.				
Serious Ingestion	Not available.				
Section 5. Fire and E	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 Various Substances	Not applicable.				
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.				
Fire Fighting Media and Instructions	Not applicable.				
Special Remarks on Fire Hazards	Not available.				
Continued on Next	Page				

Ferric chloride hexahydrate

Special Remarks on Explosion Not available. Hazards

Storage

Section 6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.		
Large Spill	Corrosive solid. 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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.		

Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic

Section 7. Handling and Storage Precautions Keep container dry. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Synthetic apron. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 1 (mg(Fe)/m ³) from ACGIH (TLV) [United States] TWA: 1 (mg(Fe)/m ³) from NIOSH TWA: 1 (mg(Fe)/m ³) [Canada] TWA: 1 STEL: 2 (mg(Fe)/m ³) [United Kingdom (UK)]

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance Solid. (Solid powder or lumps)		Odor	Not available.	
Molecular Weight	270.3 g/mole	Taste	Not available.	
pH (1% soln/water)	Not available.	Color	Yellow. Brown.	
Boiling Point	Not available.			
Melting Point	37°C (98.6°F)			
Critical Temperature	Not available.			
Specific Gravity	1.82 (Water = 1)			
Vapor Pressure	Not applicable.			
Vapor Density	Not available.			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	Not available.			
Ionicity (in Water)	Not available.			
Dispersion Properties	See solubility in water.			
Solubility	Easily soluble in cold water, hot water.			

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Section 10. Stability	and Reactivity Data			
Stability	The product is stable.			
Instability Temperature	Not available.			
Conditions of Instability	Incompatible materials, heat			
Incompatibility with various substances	Reactive with oxidizing agents. Slightly reactive to reactive with moisture.			
Corrosivity	Non-corrosive in presence of glass.			
Special Remarks on Reactivity	Hygroscopic; keep container tightly closed. Incompatible with alkali metals, allyl chloride, ethylene oxide, potassium, sodium			
Special Remarks on Corrosivity	Not available.			
Polymerization	Will not occur.			
Section 11. Toxicolo	gical Information			
Routes of Entry	Inhalation. Ingestion.			
Toxicity to Animals	LD50: Not available. LC50: Not available.			
Chronic Effects on Humans	May cause damage to the following organs: kidneys, liver, Urinary system.			
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive). Slightly hazardous in case of skin contact (permeator).			
Special Remarks on Toxicity to Animals	LDL [Rat] - Route: Oral; Dose: 900 mg/kg			
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic). May cause adverse reproductive effects based on animal test data			
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes irritation and burns of the skin. This compound has been infrequently associated with skin sensitization in humans. Eyes: Causes eye irritation and burns. Higher exposures may lead to corneal or conjunctival ulceration. Ingestion: Harmful if swallowed. Causes irritation of the gastrointestinal (digestive) tract with nausea, vomiting, diarrhea and hemorrhage and possible burns. May cause severe and permanent damage to the digestive tract. Delayed effects may include cardiovascular disturbances, liver damage, kidney damage, metabolic acidosis, cerebral coma and possible death. It may also affect behavior/central nervous system (convulsions, lethargy Inhalation: Causes irritation of the respiratory tract with possible burns. Chronic Potential Health Effects: May affect genetic material Ingestion: May affect liver/spleen (increased iron levels and damage), urinary system (Kidneys, ureter, bladder), blood (changes in white blood cell count), central nervous system, and cardiovascular system. Eyes: May cause eye discoloration.			
Section 12. Ecological 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.			

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Section 13. Dispos	al Considerations				
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.				
Section 14. Transp	oort Information				
DOT Classification	Class 8: Corrosive material				
Identification	UNNA: 1773 : Ferric Chloride PG: III				
Special Provisions for Transport	Not available.				
DOT (Pictograms)	CORROSIVE				
Section 15. Other	Regulatory Information and Pictograms				
Federal and State Regulations	For Ferric Chloride (CAS no. 7705-08-0) or Iron salts, soluble: New York release reporting list: Ferric chloride Connecticut Hazardous Materials Survey: Iron salts, soluble Pennsylvania RTK: Ferric chloride and iron salts Massachusetts RTK: Ferric chloride Massachusetts spill list: Ferric chloride New Jersey: Ferric chloride Louisiana spill reporting: Ferric chloride California Director's List of Hazardous Substances: Ferric chloride and Iron salts, soluble Minnesota: Iron salts, soluble Rhode Island: Iron salts, soluble CERCLA: Hazardous substances.: Ferric chloride: 1000 lbs. (453.6 kg)				
California Proposition 65 Warnings	California prop. 65. This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.				
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is not on the European Inventory of Existing Commercial Chemical Substances. Canada: Not listed on Canadian Domestic Substance List (DSL) or Canadian Non- Domestic Substance List (NDSL). China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Not listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS.				
Other Classifications	WHMIS (Canada) CLASS E: Corrosive solid.				
	DSCL (EEC) R22- Harmful if swallowed. R34- Causes burns. S25- Avoid contact with eyes. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).				
HMIS (U.S.A.)	Health Hazard3National Fire Protection Association (U.S.A.)Flammability ReactivityReactivity1Personal Protectionj				
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WHMIS (Canada) (Pictograms)				
DSCL (Europe) (Pictograms)	°			
TDG (Canada) (Pictograms)				
ADR (Europe) (Pictograms)				
Protective Equipment		Gloves.		
		Synthetic apron.		
		Dust respirator. Be a approved/certified re equivalent. Wear ap when ventilation is in Splash goggles.	espirator or propriate respirator	
Section 16. Other Info	ormation			
MSDS Code F310	0			
	vailable.			
Other Special Not av Considerations	vailable.			
Validated by Dale Przybyl on 10/28/2010.Verified by Dale Przybyl.Printed 10/28/2010.				
CALL (414) 774-1724				
combined with other materials, deter	riorates, or becomes otection based on th	s contaminated, it may pose he actual conditions of use.	hazards not mentioned in this MSDS While this MSDS is based on technical	lies only to the material as packaged. If this product is It shall be the user's responsibility to develop proper data judged to be reliable, WoodFinishing Enterprises.