


MATERIAL SAFETY DATA SHEET

	SECTION 1 - PRODUCT/COMPANY IDENTIFICATION		
	Product Name: Florida Chemical 9220 Liquid Hammer®		
	Manufacturer's Name	Florida Chemical Supply, Inc.	
	Address	6810 East Chelsea St. Tampa, Florida 33610	
	DOT EMERGENCY NUMBER	(800) 255-3924	
MSDS INFORMATION	(813) 623-1274		
Date Prepared	02-May-08	Supersedes	10-Nov-07

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY:COMMON NAME(S))	CAS#	% OPTIONAL	ACGIH PPM	TWA MG/M ³	STEL MG/M ³	SARA TITLE III	RQ LBS
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This product contains no hazardous components.

- (a) Indicates the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for the releases or spills to the environment of the Reportable Quantity (RQ) or greater amounts, according to the 40 CFR 302.
- (b) A "C" in the ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure
- (c) Indicates the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) has notification requirements for release or spills to the environment of the Reportable Quantity (RQ) or greater amounts, according to 40 CFR 302.
- (d) Indicates an Extremely Hazardous Substance, if your facility has a designated amount of this substance. Threshold Planning Quantity (TPQ) in inventory, the regulation of 40 CFR 355 and 370 apply, including submission of Tier I/Tier II forms every March 1
- (e) Indicates listing in Table Z - 2, 29 CFR 1910.1000, detailing acceptable ceiling concentration limits and acceptable maximum peak above the ceiling concentration for an 8-hour shift.
- (f) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

SECTION 3 - HAZARDS IDENTIFICATION

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE		HMIS RATINGS	
INHALATION:	Irritation of the throat and mouth. May cause difficulty breathing.	HEALTH	0
SKIN:	May cause irritation with redness and burning, itching, or rash.	FLAMMABILITY	0
EYES:	Prolonged exposure to mists may cause irritation, tearing, and pain	PHYSICAL HAZARD	0
INGESTION:	May cause irritation to the digestive tract with vomiting or diarrhea.	PPE	B

HEALTH HAZARDS (ACUTE AND CHRONIC) May cause irritation to skin and eyes; prolonged inhalation of this product may cause irritation to the upper respiratory tract.

CARCINOGENICITY: Not expected to be carcinogenic.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

SECTION 4 - FIRST AID MEASURES



EMERGENCY AND FIRST AID PROCEDURES	
INHALATION:	Remove victim to fresh air; if breathing has not returned to normal, get medical attention immediately.
SKIN:	Flush affected area with water for 15 minutes. Wash or discard contaminated clothing. Get medical attention if necessary.
EYES:	Flush eyes with water while holding eyelids open. Get medical attention immediately.
INGESTION:	DO NOT INDUCE VOMITING. Give large quantities of water. Get medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)	None	FLAMMABLE LIMITS	LEL:	UEL:
FLAMMABILITY	Non Flammable		N/A	N/A
EXTINGUISHING MEDIA	CO ² ; water; water fog; dry chemical; chemical foam.			
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS	May emit toxic fumes under fire conditions			

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wash small spills into sanitary sewer.
Confine large spill, soak up with approved absorbent, shovel product into approved container; for spills in excess of allowable limits (RQ) notify the national response center (800) 424-8802; refer to the SARA Title III, section 313.40 CFR 372, and CERCLA 40 CFR 302 for detailed instructions regarding reporting requirements.

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IDENTITY (AS USED ON LABEL AND LIST) Florida Chemical 9220 Liquid Hammer®		Page 2 of 2	Date: 02-May-08
SECTION 7 HANDLING AND STORAGE			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:		Keep container closed when not in use; protect container from abuse; protect from extreme temperatures. Keep this and other chemicals out of the reach of children. Minimize body contact with this product as well as all chemicals in general.	
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION			
RESPIRATORY PROTECTION (SPECIFY TYPE):		None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH respirator must be worn.	
VENTILATION	LOCAL EXHAUST:	Suggested	SPECIAL: To maintain minimum TWA and STEL levels.
MECHANICAL (GENERAL)		Yes	OTHER: Engineering and work controls as required.
PROTECTIVE GLOVES:	Neoprene or rubber		EYE PROTECTION: Safety Glasses
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:		As necessary for workplace safety.	
WORK / HYGIENIC PRACTICES:		Practice safe workplace habits.	
PERSONAL PROTECTIVE EQUIPMENT (PICTOGRAMS)			
 Gloves		 Safety Glasses	
SECTION 9 - PHYSICAL / CHEMICAL PROPERTIES			
BOILING POINT	212 ⁰ F	SPECIFIC GRAVITY (WATER = 1)	1.07
VAPOR PRESSURE (MM HG)	N/D	pH	2.1-2.5
VAPOR DENSITY (AIR = 1)	N/D	EVAPORATION RATE (WATER = 1)	<1
SOLUBILITY IN WATER	Complete	% VOLATILE (BY WT)	<1%
COLOR	Amber Liquid	ODOR	Burnt Sugar
SECTION 10 - STABILITY AND REACTIVITY			
STABILITY AND REACTIVITY	This product is stable		
INCOMPATIBILITY	Oxidizing agents and strong alkalis		
HAZARDOUS POLYMERIZATION	Will not occur		
HAZARDOUS DECOMPOSITION PRODUCTS:	Fire conditions may produce Carbon Oxides.		
CONDITIONS TO AVOID:	Extreme temperatures		
SECTION 11 - TOXOLOGICAL INFORMATION			
TOXICITY TO ANIMALS:	Not Available		
SECTION 12 - ECOLOGICAL INFORMATION			
ECOTOXICITY	Not Available		
BIODEGRADABILITY	This product is expected to readily biodegrade.		
SECTION 13 - DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD:	Dispose in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environmental Parts 206-269" for complete waste disposal regulations for chemical materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.		
SECTION 14 - TRANSPORTATION INFORMATION			
PROPER SHIPPING NAME:	Not Regulated		
HAZARD CLASSIFICATION:	Not Regulated		
IDENTIFICATION NUMBER:	Not Regulated		
SECTION 15 - REGULATORY INFORMATION			
US FEDERAL REGULATIONS	Sara 313 toxic chemical notification and release reporting: Not Applicable		
	Clean Water Act (CWA) 311: Not Determined		
	Clean Air Act (CAA) 112 regulated toxic substances: N/A		
SECTION 16 - OTHER INFORMATION			
The information contained herein is believed to be accurate but is not warranted to be so. The named supplier assumes no liability whatsoever for the accuracy or completeness of information herein. Final determination that the product is applicable and suited for the circumstances of use is the sole responsibility of the user. Unknown hazards may exist. Use this and all chemical materials with caution.			