

*** MATERIAL SAFETY DATA SHEET ***

Date of preparation: 4/16/09

3327000

SECTION I PRODUCT IDENTIFICATION AND USE

Manufacturer : **W. R. MEADOWS®, INC.**
 Address : 300 Industrial Drive
 : Hampshire, Illinois 60140
 Telephone # : (847) 683-4500
 Emergency # : 1-800-424-9300 Chemtrec

- H M I S -

|Health : 1
|Fire :
|Reactivity :
|Person Protection :

(Hazard Rating: 0=Least,1=Slight,2=Moderate,3=High,4=Extreme,*=Chronic)

Product Class : Division 3
 Mfg. Code I.D. : 3327000
 Trade Name : LIQUID-HARD® ULTRA

SECTION II-A HAZARDOUS COMPONENTS

No. Component	CAS#	% By Weight	SARA 313	VAPOR PRESSURE (MM Hg @ 20 C)	LEL
1. Silicic Acid Sodium Salt	1344-09-8	10 – 15	NO	N/A	N/A
2. Lithium Silicate	12627-14-4	5 – 10	NO	N/A	N/A

None of the components of this product are recognized as carcinogenic. Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313".

N/A: Not Applicable

SECTION II-B OCCUPATIONAL EXPOSURE LIMITS

No.	PEL/TWA	PEL/CEILING	OSHA			ACGIH		
			PEL/STEL	SKIN	TLV/TWA	TLV/CEILING	TLV/STEL	SKIN
1.	2 mg/m ³	N/E	N/E	N/E	2 mg/m ³	N/E	N/E	N/E
2.	N/E	N/E	N/E	N/E	N/E	N/E	N/E	N/E

N/E: Not Established

SECTION III PHYSICAL DATA

Boiling Point: 212 degrees F. **% Volatile by volume:** N/A
Evaporation Rate: 1 (ether = 1) **% Volatile by weight:** N/A
Vapor Density: >1 (air = 1) **Weight per gallon:** 8.90 (Theoretical)
PH Level: 11.00 **Product Appearance:** Colorless Liquid

SECTION IV HEALTH INFORMATION

EYE CONTACT: Based on the presence of components 1 & 2 this product may cause severe irritation. This product may cause corneal injury resulting in permanent vision impairment, even blindness.

SKIN CONTACT: Based on the presence of components 1 & 2 this product is presumed to be moderately irritating to the skin. Prolonged contact may cause damage to the skin.

INHALATION: Based on the presence of components 1 & 2 exposure to mist or spray may cause coughing, sneezing, or other symptoms of upper respiratory tract irritation. Over exposure may result in lung tissue damage due to corrosive effects.

INGESTION: May cause irritation of the gastrointestinal tract. Based on the presence of components 1 & 2 this product may cause severe irritation with positive tissue damage to mucous membranes of the mouth, throat, esophagus, and stomach.

SIGNS AND SYMPTOMS: This is a corrosive material. Symptoms will vary from mild irritation to severe burning based on the concentration of the material and the duration of the exposure.

AGGRAVATED MEDICAL CONDITION: Pre-existing skin, eye and respiratory disorders may be aggravated by exposure to this product.

OTHER HEALTH EFFECTS: Contains Lithium which may adversely affect a developing fetus.

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with copious amounts of water for at least fifteen (15) minutes while holding eyelids open. Seek prompt medical attention.

SKIN CONTACT: Immediately remove contaminated clothing and shoes. Wipe excess from skin and flush with water for at least fifteen (15) minutes using soap if available. Seek prompt medical attention. Do not reuse clothing until thoroughly decontaminated.

INHALATION: If respiratory symptoms develop, move victim away from exposure source and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

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SECTION V EMERGENCY AND FIRST AID PROCEDURES (con't)

INGESTION: Dilute with liquid unless the victim is unconscious or very drowsy. If vomiting spontaneously occurs, keep the victim/s head below the hips to prevent aspiration into the lungs. Consult a physician, hospital, or poison control center and/or transport to an emergency facility immediately.

SECTION VI FIRE AND EXPLOSION HAZARDS

FLAMMABILITY CLASSIFICATION – NFPA: Not Regulated

- **DOT:** Not Regulated

FLASH POINT: This product will not flash

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: Clear area of unprotected personnel. Do not enter confined fire space without helmet, face shield, bunker coat, gloves, rubber boots, and a positive pressure NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None recognized

SECTION VII REACTIVITY

STABILITY: Stable

Hazardous Polymerization: Will not occur

CONDITIONS AND MATERIALS TO AVOID: Avoid Strong Acids

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may yield Carbon Dioxide, Carbon Monoxide, and/or incomplete combustion products. Do not breathe smoke or fumes. Wear appropriate protective equipment.

SECTION VIII EMPLOYEE PROTECTION

RESPIRATORY PROTECTION: Use ventilation as required to control vapor concentrations – at least 10 air changes per hour are recommended for good general room ventilation. If exposure exceeds the PEL/TLV, use the appropriate NIOSH approved respirator.

PROTECTIVE CLOTHING: Wear safety glasses, goggles, or a splash shield to prevent eye contact. Contact lenses should not be worn. Wear appropriate gloves and protective clothing to prevent contact with skin and clothing.

ADDITIONAL PROTECTIVE MEASURES: Eye wash fountains and safety showers should be available for use in an emergency.

SECTION IX ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES: LARGE SPILLS>> Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. SMALL SPILLS>> Take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

WASTE DISPOSAL: Observe all Federal, State and Local regulations regarding proper disposal.

SECTION X ADDITIONAL PRECAUTIONS

Containers, even if empty, may hold product residues. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Keep containers closed/sealed when not in use.

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of the product described herein.