



MATERIAL SAFETY DATA SHEET

MSDS Number: HSR 1

Revision Date: Sept. 12, 2011

1. Product Identification

Manufacturer:

LGM, LLC
600 Kenrick Drive, Suite c34
Houston, Texas 77060

Emergency Numbers

(281) 677-2062

CHEMTREC: (800) 424-9300

Products:

Name: HSR 1

Highway Stain Remover (Liquid)

Synonyms: none – proprietary mixtures

Chemical Family: Natural citrate

2. Composition/Information on Chemical Ingredients

Ingredient	CAS No	Percent	Hazardous
N/A			

Ingredients not precisely identified are proprietary, non-hazardous or constitute less than 1% by weight of the mixture. All chemical ingredients appear on the EPA TSCA inventory.



3. Physical Properties

Appearance & Odor:	Clear Odorless Liquid.
Molecular Weight:	N/A
Boiling Point (Degrees Fahrenheit):	ND
Specific Gravity (Water = 1):	1.10-1.12
Vapor Density (Air =1):	ND
Percent Volatile (By Weight):	ND
pH:	4.8-5.2
Solubility in Water:	Soluble

4. Fire & Explosion Data

Flash Point (Degrees Fahrenheit; PMCC):	>250°F
Fire Extinguishing Media:	Dry chemicals, CO ₂ , water spray or alcohol-resistant foam.
Flammable Limits (% by Volume):	Lower: <u>NE</u> Upper: <u>NE</u>
Special Fire Fighting Procedures & Equipment:	Fire fighters should wear positive pressure self-contained apparatus (SCBA), and structural firefighter clothing. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.
Unusual Fire & Explosion Hazards:	None Known.
Hazardous Combustion Products:	None Known.



5. Reactivity Data

Stability:	Stable
Conditions to Avoid:	Extreme Heat.
Incompatibility (Materials to Avoid):	Avoid strong reducing agents such as metal hydrides, acetic anhydride or alkali metals will generate hydrogen gas.
Hazardous Decomposition Products:	None Known.
Hazardous Polymerization:	Will not occur.

6. Health Hazard Information

Exposure from Routine Use:	May irritate eyes and skin.
Effects of overexposure:	May irritate eyes and/or skin. Ingestion or absorption through large areas of damaged skin could cause gastrointestinal distress. Symptoms may include nausea, vomiting and/or diarrhea.
Probable Routes of Exposure:	Eyes and skin.
Emergency and First Aid Procedures:	
Eye Contact:	Flush eyes including under eyelids with clean, low-pressure water for a full 15 minutes. Seek medical attention if irritation persists for more than 30 minutes.
Skin Contact:	Rinse with fresh water for 15 minutes. If irritation persist or rash develops seek medical attention.
Inhalation:	No inhalation consequences are observed.
Ingestion:	If victim is conscious and able to swallow, have victim drink two glasses of water or milk to dilute. Never give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by a physician or Poison Control Center. Seek medical attention immediately.



7. Toxicity Data

Oral:	ND
Dermal:	ND
Inhalation:	ND
Carcinogenicity:	None of the components in this product at concentrations greater than 0.01% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Ecological:	Specific studies on the ecotoxicity or environmental fate of this product have not been conducted. Commonly available data on certain component(s) indicate that harmful effects could result from uncontrolled releases to soil, ground water, storm waters, or air. Appropriate measures should be taken to prevent uncontrolled releases.
Other Pertinent Data:	N/A

8. Special Protection Information

Personal Protective Equipment:

Protective Gloves:	Chemically Resistant
Eye Protection:	Safety glasses and/or goggles
Respiratory Protection (Specify Type):	N/A
Other Protective Equipment:	Usually not needed. Use of safe hygiene habits is a must.

Ventilation:

Local Exhaust:	No
Mechanical (General):	Only if exposure limits are exceeded.
Special:	N/A



9. Spill, Leak, and Disposal Procedures

Steps to be taken in case material is released or spilled:

Recover as much material as practical. Material can create slippery conditions. Try to work upwind of spill. Wear appropriate breathing apparatus (if applicable) and protective clothing. Soak up balance with sand, dirt, or other absorbent and haul to approved dump. Avoid direct discharge to natural waterways. Refer to all local, state, and federal regulations on spills concerning this material.

Waste Disposal Methods:

Hazard characteristic and regulatory waste stream classification can change with product use. Wastes must be tested using methods described in 40 CFR 261 to determine if it meets applicable definitions of hazardous waste. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition. Abide by all federal, state, and local regulations for disposal. Avoid direct discharge to natural waterways.

Clean Water Act Requirements: N/A

Resource Conservation and Recovery Act (RCRA) Requirements: N/A

Hazard Ratings

Health Rating: 1 - Slight
Flammability Rating: 0 - None
Reactivity Rating: 0 - None
Personal Protection: C – Safety Glasses, Gloves, Synthetic Apron

10. Regulatory Information

TSCA: Components listed and reported with the provisions outlined in Toxic Substances Control Act, 15, U.S.C.



EPA:

SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS): This product contains the following component regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

<u>Component</u>	<u>CAS #</u>	<u>Weight Percent</u>
No components present in this product are listed.		

SARA SECTION 304 CERCLA HAZARDOUS SUBSTANCES: This product contains the following components regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification.

<u>Component</u>	<u>CAS #</u>	<u>Weight Percent</u>	No
components present in this product are listed.			

SARA SECTION 313 TOXIC CHEMICAL LIST (TCL): The following component is listed on the Section 313 Toxic Chemical List.

<u>Component</u>	<u>CAS #</u>	<u>Weight Percent</u>	No
components present in this product are listed.			

TRANSPORT:

Domestic (Land, D.O.T.)

Proper Shipping Name: Non-Regulated Liquid, N.O.S.
(HSR 1)

Hazard Class: None

UN/NA: None

Packing Group: None

International (Water, I.M.O.)

Proper Shipping Name: Non-Regulated Liquid, N.O.S.
(HSR 1)

Hazard Class: None

UN/NA: None

Packing Group: None



11. Special Precautions and Comments

Precautions to be taken in Handling and Storing:

Do not get in eyes. Avoid breathing vapors or mists. Do not ingest. Keep containers tightly closed. Handle in adequately ventilated areas. Avoid overheating of drums or storage tanks. Store in a cool, dry, well-ventilated location. Do not wash out container and use it for other purposes.

Other Precautions:

Keep away from children. Product is for industrial use only.

Disclaimer:

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Accepted by:

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