



# MATERIAL SAFETY DATA SHEET

## Liquid Minerals™

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** LMG-30E®

**MANUFACTURER/SUPPLIER**

**EMERGENCY TELEPHONE NUMBERS (24 HOUR):**

Liquid Minerals Group, Inc.  
PO Box 1700  
New Waverly, TX 77358

CHEMTREC: 800-424-9300 (US)  
703-527-3887 (International)

For information call (936) 291-2424

Preparer: S. D. Smith

Date of Last Revision: 06/01/2008

Title: Regulatory Info Group

Supercedes MSDS Dated: 07/23/2007

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

| ITEM | HAZARDOUS INGREDIENTS  |  |  | CAS#         | WT/WT % |  |
|------|------------------------|--|--|--------------|---------|--|
| 01   | Magnesium carboxylates |  |  | 67701-23-9   | 50-80   |  |
| 02   | Heavy Aromatic Naphtha |  |  | 64742-94-5   | 10-20   |  |
| 03   | Hydrocarbon resin      |  |  | Trade Secret | 1-5     |  |
| 04   | Naphthalene            |  |  | 91-20-3      | 0.1 – 1 |  |

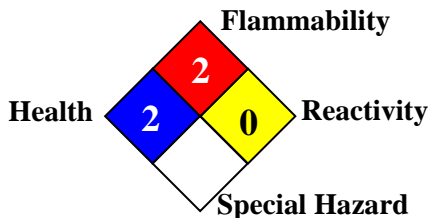
| ITEM | ACGIH                        |                                   | OSHA                           |                                   | COMPANY | SKIN |
|------|------------------------------|-----------------------------------|--------------------------------|-----------------------------------|---------|------|
|      | TLV-TWA                      | TLV-STEL                          | PEL-TWA                        | PEL-STEL                          |         |      |
| 01   | N.A.                         | N.A.                              | N.A.                           | N.A.                              | N.E.    | N    |
| 02   | N.A.                         | N.A.                              | N.A.                           | N.A.                              | N.E.    | N    |
| 03   | 0.5 mg/m <sup>3</sup>        | N.A.                              | N.A.                           | N.A.                              | N.E.    | N    |
| 04   | 52 mg/m <sup>3</sup> hour(s) | 79 mg/m <sup>3</sup> 15 minute(s) | 50 mg/m <sup>3</sup> 8 hour(s) | 75 mg/m <sup>3</sup> 15 minute(s) | N.E.    | N    |

**LEGEND:** N.A.: Not available (C): Ceiling Point  
 N.E.: Not Established Y: Skin absorption is significant to overall exposure  
 N.D.: Not Determined N: Skin absorption is not significant

### SECTION 3 – HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD CLASSIFICATIONS:



**APPEARANCE:** Dark gray color liquid

**ODOR:** Hydrocarbon odor

**SIGNIFICANT HAZARDS:** None determined

**COMBUSTIBLE** liquid and vapor. Skin and eye irritant. May cause irritation to the respiratory tract. Contains a material which can cause liver and kidney damage. Contains a material which can cause nervous system effects. Contains a material which may cause embryo/ferotoxicity based on animal data. Contains a material which may cause effects to the blood and/or bone marrow.

**SECTION 3 – HAZARDS IDENTIFICATION – CONTINUED**

**POTENTIAL HEALTH EFFECTS**

**EYE CONTACT:**

Direct eye contact may cause irritation.

**SKIN CONTACT:**

Prolonged and repeated skin contact may cause irritation and possibly dermatitis. Repeated skin contact may produce an allergic sensitization. In such cases, incidental (minor) contact may cause allergic rashes. Sunlight will aggravate or cause irritation to skin exposed to a component(s) of this product.

**INHALATION:**

Prolonged, repeated or high exposures may cause irritation to the respiratory m= (nose, mouth, mucous membranes). Prolonged, repeated or high exposures may cause pneumonitis and in extreme case, pulmonary edema. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness dizziness and possibly narcosis. In extreme cases, may cause loss of consciousness.

**INGESTION:**

Harmful if swallowed. May cause severe gastrointestinal disturbance with headache, nausea vomiting and diarrhea Aspiration into lungs may cause pulmonary chemical pneumonitis. May be readily absorbed through the gastrointestinal tract.

**CHRONIC EFFECTS:**

Ingestion or inhalation of a large quantity of magnesium oxide may cause a feverish reaction and leukocytosis.

**CARCINOGENICITY:**

From skin-painting studies of petroleum distillates of similar composition and distillate range, it has been shown that these types of materials often possess weak carcinogenic activity in laboratory animals. In these tests the material is painted on the shaved backs of mice twice a week for their lifetime. The material is not washed off between applications. Therefore, there may be a potential risk of skin cancer from prolonged or repeated skin contact in the absence of good personal hygiene.

**SECTION 4 – FIRST AID MEASURES**

**EYES:**

If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

**SKIN:**

In case of contact, wash skin immediately with soap and water. If rash or irritation develops, consult a physician. Launder clothing before reuse.

**INHALATION:**

If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

**INGESTION:**

Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Have die victim drink 8 to 10 ounces (240 - 300 ml) of water to dilute the material in the stomach. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration into the lungs. Consult a physician immediately.

**NOTE TO PHYSICIAN**

**NOTE TO PHYSICIAN:**

Administer activated carbon if indicated.

**SECTION 5 – FIRE-FIGHTING MEASURES**

Flashpoint and Method: 66 C (150 F) SFCC ASTM D-3828

Autoignition Temperature: N.D.

Flammable Limits: LEL: N.D.

UEL: N.D.

**HAZARDOUS COMBUSTION PRODUCTS:**

Carbon monoxide. Carbon dioxide

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Combustible liquid. At elevated temperatures, vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back.

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, Dry Chemical. Foam, Water Fog**FIRE-FIGHTING INSTRUCTIONS:**

Use a self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode. Combustible. Cool fire-exposed containers using water spray.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES****LEAKS OR SPILLS:**

Use personal protective equipment as necessary. Absorb with suitable chemical absorbent. Dispose of material in accordance with all federal, state and local regulations. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

**OTHER:**

No known information.

Refer to Section 15 for regulatory reporting requirements in the event of an accidental release.

**SECTION 7 – HANDLING AND STORAGE****HANDLING AND STORAGE:**

Combustible liquid. Avoid heat, sparks and open flames. Avoid breathing vapor and contact with eyes, skin and clothing. Keep container closed when not in use. Use in well ventilated area.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION****ENGINEERING CONTROLS:**

Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Chemical resistant gloves and chemical goggles should be used to prevent skin and eye contact.

**RESPIRATORY PROTECTION:**

When concentrations exceed nuisance levels, use appropriate NIOSH-approved respirator. In extreme cases a Self Contained Breathing Apparatus (SCBA) may be necessary.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Solubility in Water: Insoluble

ph @ 5.0% in water: N.D.

Density @ 60 F (16 C): 11.5 – 12.3 lb/USgal

Evaporation Rate: Is slower than Ether

Boiling Point ASTM D-86: N.D.

Vapor Density: Is heavier than air

Physical State: Liquid

Vapor Pressure: N.D.

**SECTION 10 – STABILITY AND REACTIVITY**

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:  
Keep away from strong oxidizing agents, heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS:  
No known information.

**SECTION 11 – TOXICOLOGICAL INFORMATION****PRODUCT TOXICOLOGICAL INFORMATION**

NAPHTHALENE:

This product contains naphthalene. The International Agency for Research on Cancer evaluated naphthalene and concluded that there was sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Accordingly, IARC classified naphthalene as a possible human Carcinogen (Group 2B). The US National Toxicology Program (NTP) has evaluated naphthalene and found that it may be reasonably anticipated to be a human carcinogen.

OTHER:  
No known information

**COMPONENT TOXICOLOGICAL INFORMATION:**

| <u>Component</u>       | <u>LD<sub>50</sub> Dermal</u> | <u>LD<sub>50</sub> Oral</u>              | <u>LC<sub>50</sub> Inhalation</u> |
|------------------------|-------------------------------|--|-----------------------------------|
| Magnesium carboxylates | N.D.                          | N.D.                                     | N.D.                              |
| Heavy Aromatic Naphtha | Acute: >2000 mg/kg [RB]       | Acute: >2000 mg/kg [R]<br>3200 mg/kg [R] | N.D.                              |
| Hydrocarbon resin      | N.D.                          | N.D.                                     | N.D.                              |
| Naphthalene            | Acute: >20000 mg/kg [RB]      | Acute: 490 mg/kg [R]<br>2600 mg/kg [R]   | N.D.                              |

LEGEND: R = Rat  
RB = Rabbit  
M = Mouse  
GP = Guinea Pig

SKIN AND EYE SCORE: 1 = No Effect / Slight Irritant  
2 = Moderate Irritant  
3 = Strong Irritant  
4 = Skin: Extreme Irritant: Eye: Extreme Irritant/Corrosive

**SECTION 12 – ECOLOGICAL INFORMATION**

OTHER:  
No known information.

**SECTION 13 – DISPOSAL INFORMATION**

DISPOSAL INFORMATION:

Responsibility for proper waste disposal rests with the generator of the waste. Dispose of any waste material in accordance with applicable regulations. Note that these regulations may also apply to empty containers, liners, and rinsate. Processing, use, dilution, or contamination of this product may cause its physical and chemical properties to change.

**SECTION 14 – TRANSPORTATION INFORMATION****U.S. DEPARTMENT OF TRANSPORTATION (D.O.T.) INFORMATION**

Proper Shipping Name: Combustible liquid, n.o.s (contains Aromatic naphtha and Naphthalene) NA1993 III

D.O.T. Emergency Response Guide: 128

Marine Pollutant N.A.

**NON-REGULATED when shipped in containers less than 110 US gallons.****INTERNATIONAL MARITIME ORGANIZATION INFORMATION**

Proper Shipping Name: NOT REGULATED by I.M.O. III

IMDG Code Page: N.A.

EMS Number: N.A.

MFAG Table Number 1: N.A.

MFAG Table Number 2: N.A.

Marine Pollutant: N.A.

**SECTION 15 – REGULATORY INFORMATION****CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES:**

This Liquid Minerals Group product contains the following components that are subject to the release reporting requirements of the Comprehensive Environmental Response Compensation and Liability Act. Also listed is the Reportable Quantity (RQ) in pounds for each such component and the amount of product, in gallons, that must be released or spilled in order to exceed the RQ.

| Chemical Name: | CAS Number | RQ# | RQ GAL |
|----------------|------------|-----|--------|
| Naphthalene    | 91-20-3    | 100 | 1040   |

**SARA TITLE III:**

This Liquid Minerals Group product contains the following components that are identified as extremely hazardous substances by the Superfund Amendments and Reauthorization Act. Also listed is the Reportable Quantity (IQ) in pounds for each such component and the amount of product, in gallons, that must be released or spilled in order to exceed the RQ; and the Threshold Planning Quantity (TPQ) in pounds for each such component and the amount of product in gallons that contains the TPQ.

| Chemical Name:   | CAS Number | RQ (lbs.) | RQ (gal) | TPO (lbs) | TPO (gal) |
|--|------------|-----------|----------|-----------|-----------|
| No SARA Extremely Hazardous Substances are present in this material. |            |           |          |           |           |

Liquid Minerals Group has determined that under Sections 311/312 of SARA Title III, the following hazard categories apply to this product:

Hazard: Immediate Health, Fire.

**SARA SECTION 313:**

This Liquid Minerals Group product contains the following components that are subject to the annual toxic release inventory reporting requirements of Section 313 of SARA Title III. Also listed is the concentration of the component in weight percent, in the product. A component is not listed if its concentration is less than the *de minimis* level.

| Chemical Name | CAS Number |
|---------------|------------|
| Naphthalene   | 91-20-3    |

**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

This product or its components, if a mixture, are listed on the TSCA inventory.

This Liquid Minerals Group product contains the following components that are subject to the reporting requirements of TSCA Section 12(b) if exported from the United States.

| <u>Chemical Name</u>                   | <u>CAS Number</u> |
|--|-------------------|
| Trimethylbenzene (C-9 Aromatic/Sec. 4) | 95-63-6           |

**SIGNIFICANT NEW USE RULES (SNUR):**

This product does not contain any components that are subject to a Significant New Use Rule (SNUR).

**PENNSYLVANIA RIGHT-TO-KNOW:**

The following non-hazardous ingredients are present in the product at greater 3%:

| <u>Chemical Name</u>  | <u>CAS Number</u> |
|---|-------------------|
| No hazardous ingredients are present in the product at greater than 3%. |                   |

**INTERNATIONAL REGULATIONS**

**CANADA** All components are compliant with or are exempted from listing on the Canadian Domestic Substance List.

**EUROPEAN UNION** All components are included on or are exempted from listing on the European Inventory of Existing Commercial Chemical Substances or the European List of Notified Chemical Substances.

**SECTION 16 – OTHER INFORMATION****NFPA HAZARD CLASSIFICATIONS:**

Health: 2

Flammability: 2

Reactivity: 0

Special: N.A.

**REVISION HISTORY:**

06/01/2008 - New format

The information and recommendations contained hereon are believed to be accurate and reliable as of the date issued. However, we do not warrant their accuracy or reliability.

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