Material Safety Data Sheet

I. Chemical Product and Company Identification

Emergency Spill Information: (800) 424-9300 Chemtrec Date: Nov 20, 2009

Product Name: **Utilimag MM-20**

Manufacturer/Supplier:
Martin Marietta Magnesia Specialties
8140 Corporate Drive, Suite 220, Baltimore, MD 21236
(410) 780-5500

II. Hazardous Ingredients Information

Component	CAS No.	Range % (by wt)
Naphthalene	91-20-3	3-7
Methylnaphthalenes	mixture	15-40
Catalytic reformer petroleum distillate	68477-31-6	60-100

EEC (EINECS) No. 270-722-0
See Section 8.0 - Exposure Controls/Personal Protection for exposure guidelines.

III. Hazard Identification

EMERGENCY OVERVIEW: Warning! Harmful or fatal if liquid is aspirated into lungs. Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.

POTENTIAL HEALTH FFFECTS:
Eye Contact: No significant health hazards identified.
Skin Contact: Causes mild skin irritation. See Section 11.0 - Toxicological Information.
Inhalation: No significant health hazards identified.
Ingestion: Harmful or fatal if liquid is aspirated into lungs. See Section 11.0 - Toxicological Information.

HMIS CODE: (Health - 1) (Flammability - 1) (Reactivity - 0)
NFPA CODE: (Health - 1) (Flammability - 1) (Instability - 0)

IV. First Aid Measures

EYE: Flush eyes with plenty of water while lifting the eyelids. Make sure to remove any contact lens from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SKIN: Remove contaminated clothing. Wash exposed skin immediately with soap and water. Get medical attention if any discomfort continued.

INHALATION: If adverse effects occur, remove to uncontaminated area. Place unconscious person on the side in the recovery position and ensure breathing. Get medical attention if any discomfort continues.

INGESTION: If swallowed, do NOT Induce vomiting. When risk of unconsciousness, place the victim in secured side position. Get immediate medical attention.

V. Fire Fighting Measures

FLASHPOINT: Greater than 203.0°F (95.0°C) UEL: Not determined. LEL: Not determined.

AUTOIGNITION TEMPERATURE: 910°F (490°C)

FLAMMABILITY CLASSIFICATION: Not Flammable

EXTINGUISHING MEDIA: Stop flow of material to fire. Fire can be extinguished with agents approved for Class B hazards (e.g. dry chemical, carbon dioxide, foam, steam) or water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None identified.

FIRE-FIGHTING EQUIPMENT: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

PRECAUTIONS: Keep container closed. Keep run-off water out of sewers and water sources. Dike for water control.

HAZARIDOUS CONLBUSTION PRODUCTS: Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

OSHA FLAMMABILITY CLASS: IIIB

VI. Accidental Release Measures

Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Keep out of waterways and sewers.

Stop leak If possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Disposal should be carried out in accordance with the Special Waste Regulations. It any liquid enters the drainage system or watercourse inform the local authorities, Fire Department and Environment Agency.

VII. Handling and Storage

HANDLING: Do not use in confined spaces without adequate ventilation and/or respirator. Keep away from ignition sources (e.g., heat, sparks, or open flames). Pump at no greater than 23 feet per second. Avoid static build-up by suitable grounding arrangements.

STORAGE: Keep in cool, dry, ventilated storage and closed containers. Store away from heat, Ignition sources, and open flames

VIII. Exposure Controls/Personal Protection

EYE: Wear approved safety goggles.

SKIN: Avoid skin contact. Wear protective gloves made of impermeable material.

VENTILATION: Must not be handled in confined space without adequate ventilation.

HYGIENIC WORK PRACTICES: Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. DO NOT SMOKE IN WORK AREA!

VIII. Exposure Controls/Personal Protection (con't)

ENGINEERING CONTROLS: Control airborne concentrations below the exposure guidelines.

EXPOSURE GUIDELINES:

Components	CAS No.	Exposure Limits
Naphthalene	91-20-3	OSHA PEL- 10 ppm (1999) (1971) OSHA STEL- 15 ppm (1989); Not Established (1971) ACGIH TLV-TWA: 10 ppm ACGIH TLV-STEL: 15 ppm
Methylnaphthalenes	mixture	No exposure limit established.
Catalytic reformer Distillate	68477-31-6	OSHA PEL: mg/m3 (oil mist) Petroleum

IX. Chemical and Physical Properties

Appearance and Odor:	Liquid, Clear, Yellow, Hydrocarbon odor
pH:	Not determined
Flash Point:	>95°C (Closed Cup)
Vapor Pressure:	0.15 mm Hg @ 20°C
Vapor Density:	Not determined.
Boiling Point:	410-550°F (210-288°C)
Melting Point:	Not determined
Solubility in Water:	Negligible, below 0.1%
Specific Gravity (Water=1):	0.98

X. Stability and Reactivity

Stability: Stable. Not subject to hazardous decomposition or polymerization.
Conditions to Avoid: Unventilated, enclosed areas; heat, sparks, flames

XI. Toxicological Information

ACUTE TOXICITY DATA:

Eye Irritation: This product had a primary eye irritation Score (PETS) of 7.0/110 (rabbit)

Skin Irritation: This product had a primary skin irritation score (PDIS) of 6.3/8.0 (rabbit). This product had a primary skin irritation score (PDIS) of 0.6/7.0 (4-day repeated patch test in human volunteers)

Dermal LD50: Greater than 2000 mg/kg (rabbit)
Oral LD50: Greater than 2622 mg/kg (rat).
Inhalation LD50: Testing not conducted. See "Other Toxicity Data".

OTHER TOXICITY DATA:
This product contains a catalytic reformer petroleum distillate. No deaths occurred in rats exposed to distillate vapors at the maximum attainable concentration under the experimental conditions (1670 mg/m3) for 6 hours. Signs of toxicity included red nasal and lacrimal discharge and dark red lung foci. Rats exposed to distillate vapors at concentrations as high as 330 mg/m3 for 21 days or 110 mg/in3 for 90 days showed no significant adverse effects.

XI. Toxicological Information (con't)

The distillate was practically nontoxic in rabbits via single dermal contact and only slightly, toxic via single ingestion in rats. In a 21-day rat oral toxicity study at dose levels from 90 to 3000 mg/kg deaths in excess of controls occurred only at the 3000 mg/kg level. The only adverse effect at lower dose levels was gastrointestinal irritation.

In a 90-day study, the distillate was applied dermally to rats and mice at doses ranging from 170 to 4500 mg/kg. Depression of the growth rates and deaths occurred at both the 1500 and 4500 mg/kg dose levels in both species. Dose-related irritation at the application site was observed, but no other treatment-related effects were seen.

The distillate produced a weak skin tumor response (2 out of 49 mice, mean latency of 67 weeks) in mice following repeated application of high levels for life. The response was not statistically significant when compared to control animals. The dose levels and duration of exposure were very high and do not reflect anticipated human exposure. This product does not present a human health risk if the personal and industrial hygiene practices recommended in this material safety data sheet are followed.

Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Do not siphon by mouth.

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

XII. Ecological Information

Ecological testing has not been conducted on this product.

XIII. Disposal Information

Enclosed-controlled incineration is recommended unless directed otherwise by applicable ordinances. The container for this product can present explosion or fire hazards, even when emptied! To avoid risk of injury, do not cut, puncture, or weld oil or near this container. Since the emptied containers retain product residue, follow label warnings even after container is emptied.

XIV. Transportation Information

U.S. DEPT OF TRANSPORTATION

Shipping Name:	Environmentally Hazardous Substances, Liquid N.O.S, (Naphthalene, Methylnaphthalene)
Hazard Class:	9
Identification Number:	UN3082
Packing Group:	III
RQ:	RQ (Naphthalene)

XIV. Transportation Information (con't)

INTERNATIONAL INFORMATION
Sea (IMO/IMDG)
Shipping Name: Environmentally Hazardous Substances, Liquid N.O.S. (Naphthalene, Methylnaphthalene)
Class: 9
Packing Group: III
UN Number: UN3082
MARPOL: Marine Pollutant (Naphthalene, Methylnaphthalene)

Air (ICAO/IATA)
Shipping Name: Environmentally Hazardous Substances, Liquid N.O.S. (Naphthalene, Methylnaphthalene)
Class: 9
Subsidiary Class: UN3082
Packing Group: III RQ (Naphthalene)

European Road/Rail (ADR/RID)
Shipping Name: UN3082 Environmentally hazardous Substances, N.O.S.
Class: 9
Item: PG III

Canadian Transportation of Dangerous Goods
Shipping Name: Environmentally Hazardous Substances, Liquid N.O.S. (Naphthalene, Methylnaphthalene)
Hazard Class: 9.2
UN Number: UN3082
Packing Group: III
RLRO (Naphthalene)

XV. Regulatory Information

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR Part 302.4): RQ = 100 LBS. (Naphthalene).

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355.30 and 40 CFR Part 355.40): Not regulated.

SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370): This product is defined as hazardous by OSHA under 29 CFR Part 1910.1200(d). Hazardous categories for this product are:
Acute = yes; Chronic = yes; Fire = no, Pressure = no; Reactive = no.

SARA TITLE III SECTION 313 (40 CFR Part 372.65): This product contains the following substance(s), which are on the Toxic Chemicals List in 40 CFR Part 372:

Component/CAS No.	Weight Percent
Naphthalene 91-20-3	7
Polycyclic Aromatic Hydrocarbons	1

U.S. INVENTORY (TSCA): Listed on inventory.

OSHA HAZARD CONIMUNICATION STANDARD: Irritant.

STATE RECULATIONS:
California Proposition 65: Known to cause the following -- soots, tars, and mineral oils (untreated or mildly treated oils and used engine oils) Cancer (February 27, 1987.)

XV. Regulatory Information (con't)

WHMIS Controlled Product Classification: D28.

EC INVENTORY (EINECS/ELINCS): In compliance

JAPAN INVENTOIRY (MITI): Not determined.

AUSTRALIA INVENTORY (AICS): Not determined.

KOREA INVENTORY (ECL): Listed on inventory.

CANADA INVENTORY (DSL): All of the components of this product are listed on the DSL.

PHILIPPINE INVENTORY (PICCS): Listed on inventory.

XVI. Other Information

When applied to growing crops, this product is considered exempt from the requirement of a tolerance in accordance with FIFRA regulations at 40 CFR 180.1001.

European Road/Rail (ADR/RID)
Packing Group - III
RID/ADR Hazard ID No. - 90