

MATERIAL SAFETY DATA SHEET



I PRODUCT IDENTIFICATION

MANUFACTURED FOR: L&W Stone Corporation
1036 South Street
Orland, CA 95963
(530) 865-5085

FOR CHEMICAL EMERGENCY
Spill, Leak, Fire Exposure or Accident
CALL INFOTRAC – Day or Night: 800/535-5053
Outside the United States Call Collect: 352/323-3500

PRODUCT TRADE NAME: Limestone Guard™

II HAZARDOUS INGREDIENTS

CHEMICAL NAME	(COMMON NAME)	CAS NO.	NFPA CODE	ACGIH TLV/TWA	OSHA PEL/TWA
Petroleum Naphtha	Odorless Mineral Spirits	64741-65-7	1,2,0,-	100 ppm	100 ppm
Isobutyltriethoxysilane	(Alkoxysilane)	017980471	1,3,0	1000 ppm	1000 ppm
Alkyl polysilicates	(Alkyl Silicates)	mixture	1,3,0	85 ppm (ethyl silicate)	850 ppm (ethyl silicate)
Ethyl alcohol	(Ethanol)	64-17-5	1,3,0	1000 ppm	1000 ppm

III PHYSICAL DATA

	BOILING POINT (°F)	VAPOR PRESSURE (mm Hg)	VAPOR DENSITY (Air = 1)	EVAPORATION RATE (Butyl Acetate = 1)
Petroleum Naphtha	347°F	0.8 (68°F)	5.3	0.1
Isobutyltriethoxysilane	ND	ND	ND	ND
Alkyl polysilicates	172°F	21 (50°F)	ND	ND
Ethyl alcohol	147°F	97.68 (68°F)	1.60	3.30

	SPECIFIC GRAVITY	VOC (g/L)	SOLUBILITY IN WATER	APPEARANCE AND ODOR
Limestone Guard™ *	0.809	728 g/L	Negligible	Clear to slight yellow liquid, mild petroleum odor

*Typical

IV FIRE AND EXPLOSION HAZARD DATA

EMERGENCY OVERVIEW

Limestone Guard™ is a clear, mild-smelling liquid. It is a combustible liquid. Keep away from heat, sparks, flames, or other sources of ignition. Aspiration hazard if swallowed. May cause severe eye and skin irritation.

FLASH POINT (METHOD): 126 °F (ASTM D 3278)

FLAMMABLE LIMITS: Not determined.

EXTINGUISHING MEDIA: Foam, dry chemical or CO₂ is recommended. Use caution when applying carbon dioxide in confined spaces. Water spray is recommended to cool or protect exposed containers, materials, or structures. Do not use a direct water stream. Avoid accumulation of water as product will float.

SPECIAL FIRE FIGHTING PROCEDURES: Do not enter confined fire space without proper protective equipment; including a NIOSH/MSHA approved self-contained breathing apparatus. Cool fire exposed containers, surrounding equipment and structures with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may accumulate in low areas or areas inadequately ventilated. Vapors may also travel along the ground to be ignited at location distant from handling site; flashback of flame to handling site may occur. May create vapor/air explosion hazard indoors, outdoors, or in sewers. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

V HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Skin, eyes, inhalation.

CARCINOGEN INFORMATION: Not listed (OSHA, IARC, NTP).

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Conditions aggravated may include disorders of the skin, respiratory, and nervous system.

EFFECTS OF OVEREXPOSURE: Overexposure can lead to central nervous system depression producing such effects as headache, dizziness, nausea and loss of consciousness, and even asphyxiation.

EYE CONTACT: Short-term liquid or vapor contact may result in slight eye irritation. Prolonged and repeated contact may be more irritating. Contact may cause stinging, watering, redness and swelling.

SKIN CONTACT: Prolonged and repeated liquid contact can cause defatting and drying of the skin, which may result in skin irritation and dermatitis.

INHALATION: High concentrations or prolonged exposure to lower concentrations may be slightly irritating to mucous membranes. Overexposure to vapors may produce central nervous system depression, causing narcosis. Inhalation of mists may cause injury to blood, liver and kidneys.

INGESTION: ASPIRATION HAZARD. Liquid ingestion may result in vomiting; aspiration of liquid into the lungs must be avoided as liquid contact with the lungs can result in chemical pneumonitis and pulmonary edema/ hemorrhage.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: If in eyes, flush with large amounts of water, holding eyelids apart to ensure flushing of the entire eye surface. Get medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and do not reuse until laundered. If persistent irritation occurs, get medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention immediately if symptoms persist after moving victim to fresh air.

INGESTION: Do not induce vomiting even though vomiting may occur. If vomiting occurs, keep head below hips to prevent aspiration of liquid into lungs, which can cause chemical pneumonitis, which can be fatal. Get medical attention.

VI REACTIVITY DATA

STABILITY: Stable, however water, moisture, or humid air can cause hazardous vapors to form as described in Section II of this MSDS.

CONDITIONS TO AVOID: Heat, sparks, open flame, open air, high humidity, water. PROTECT FROM MOISTURE.

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing materials.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organics may be formed during combustion, silicon dioxide, carbon dioxide, and formaldehyde.

VII SPILL OR LEAK PROCEDURES

SPILL, LEAK, WASTE DISPOSAL PROCEDURES: TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Eliminate potential sources of ignition. Wear appropriate respirator and other protective clothing. Shut off source of leak only if safe to do so. Dike and contain to prevent contact with sewers, soil, and surface and ground water. Remove with spark resistant equipment. Soak up residue with a noncombustible absorbent such as clay or vermiculite; place in drums for proper disposal.

WASTE DISPOSAL METHODS: Dispose of in a facility approved under RCRA regulations for hazardous waste. Containers must be leak-proof and properly labeled. Empty container should be completely drained before disposal in a sanitary landfill (check local restrictions).

VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If Threshold Limit Value (TLV) of the product or any component is exceeded, OSHA requires that respiratory protection be used. A cartridge style respirator with organic vapor cartridges is recommended for all components except alkoxy silane. An air-supplied respirator is advised in absence of proper environmental control for alkoxy silane. Engineering or administrative controls should be implemented to reduce exposure. Prevent overexposure in accordance with 29CFR 1910.134.

VENTILATION: Provide sufficient general and/or local exhaust ventilation to maintain exposure below TLV(s). Use explosion-proof ventilation as required to control vapor concentrations below the TLV(s). Ventilation may be required during product drying and curing.

PROTECTIVE CLOTHING: Wear protective clothing as required to prevent prolonged skin contact.

PROTECTIVE GLOVES: Wear solvent-resistant gloves, such as nitrile rubber.

EYE PROTECTION: Wear safety glasses with side shields. Wear splash goggles or a face shield if splash hazards are present. Do not wear contact lenses because they may contribute to the severity of an eye injury.

OTHER PROTECTIVE EQUIPMENT: Solvent-resistant boots and headgear as needed. Access to an eyewash and clean water for body rinsing is recommended.

IX SPECIAL PRECAUTIONS

WORK PRACTICES: Proper work practices and planning should be utilized to avoid contact with workers, passersby, and non-masonry surfaces. Do not atomize during application. Beware of wind drift. Over-application may contribute to fume problems. Always follow published application rates. See the Product Data sheet and label for specific precautions to be taken during use. Eliminate all sources of ignition, even remote sources, as vapors may travel some distance. Smoking, eating and drinking should be prohibited during the use of this product. Wash hands before breaks and at the end of a shift.

This product will continue to evolve vapor during drying and ethyl alcohol during curing. Continue ventilation as needed during curing.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store away from oxidizing materials in a cool, dry place with adequate ventilation. Keep away from heat and open flames. Keep container tightly closed when not dispensing product.

Wash up with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid, and/or solid). All hazard precautions given in the Data sheet must be observed.

X REGULATORY INFORMATION

SHIPPING: This product is classified as a combustible under USDOT regulations for domestic ground transport. However, the container sizes offered allow the product to be classed as non-hazardous and would carry the following Proper Shipping Description: NON-HAZARDOUS/NON-REGULATED (UNDER 119 GALLONS PER CONTAINER) provided product is shipped in unopened, factory packaging.

NATIONAL MOTOR FREIGHT CLASSIFICATION: NMFC#33880 Sub 2 Class Rate: 55

SARA 313 REPORTABLE:

CHEMICAL NAME	CAS	UPPERBOUND CONCENTRATION % BY WEIGHT
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None.

CALIFORNIA PROPOSITION 65: This product is not known to contain any chemical substances, which are known to the State of California to cause cancer, birth defects, or other reproductive harm, and therefore, it is not subject to requirements of California Health and Safety Code Section 25249.5.

VOC Content = 728 g/L. Product is reformulated to reduce odor and improve user safety. Manufactured and marketed in compliance with USEPA VOC regulations (40 CFR 59.403).

XI OTHER

MSDS Status: **Date of Revision:** June 7, 2004
For Product Manufactured After: June 1, 2004
Changes: N/A – new product
Item #: PSC55067
Approved By: Regulatory Department

DISCLAIMER:

The information contained on the Material Safety Data Sheet has been compiled from data considered accurate. This data is believed to be reliable, but it must be pointed out that values for certain properties are known to vary from source to source. **L & W Stone Corporation expressly disclaims any warranty expressed or implied as well as any liability for any injury or loss arising from the use of this information or the materials described.** This data is not to be construed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. It is the responsibility of the user to determine the best precautions necessary for the safe handling and use of this product for his unique application. This data relates only to the specific material designated and is not to be used in combination with any other material. Many federal and state regulations pertain directly or indirectly to the product's end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize himself with all applicable regulations.

DATE OF PREPARATION: June 7, 2004