

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Identifier LIME

Other Means of Identification Not applicable.

Recommended Use of Chemical and

Restrictions on Use

This product is used as a weighting material and as a bridging-sealing agent to minimize invasion of filtrate and whole fluid to the formation during the drilling of oil and gas

wells.

Supplier Details Oren Hydrocarbon Middle East Fzco.

P.O. Box 18159, Jebel Ali Free Zone (South)

Dubai, UAE

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2. HAZARDS IDENTIFICATION

Classification of the Substance/

Mixture

This material is considered hazardous by the OSHA Hazard Communication Standard (29

CFR 1910.1200).

SKIN CORROSION/IRRITATION – Category 2 EYE DAMAGE/IRRITATION – Category 2B

Label Elements Including Precautionary Statements

Hazard Pictogram(s):



Signal Word:

Warning

Hazard statement(s): Causes serious eye irritation.

Precautionary statements:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and clothing, eye protection, and face protection. Do not breathe dust. Use only outdoors or in well-ventilated areas. Wash hands, forearms, and face thoroughly after handling. Do not eat, drink, or smoke when using this product.

Response:

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents and container in accordance with local, state,

and federal regulations.

Hazards Not Otherwise Classified: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture.

Component	CAS No.	Weight (%)
Calcium carbonate	471-34-1	60 – 100

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4. FIRST AID MEASURES

First Aid Measures Inhalation: Move to fresh air. Give oxygen or artificial respiration if required. If

breathing difficulties or distress continues contact a physician.

Skin contact: Wash with soap and water. Remove contaminated clothing and launder

before reuse. If irritation persists, or develops, obtain medical attention.

Eye contact: Rinse eyes with gently flowing warm water until particles are removed. If

irritation persists, obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical

attention.

Most Important Symptoms/Effects,

Acute and Delayed

Acute effects: No Specific data.

Delayed effects: No Specific data.

Indication of Immediate Medical Attention and Special Treatment

Needed

Note to physician: Treat symptomatically.

Specific treatments: Specific treatment must be based on judgement of the physician in

response to reactions of the patient.

Protection of first aiders: No action shall be taken involving any personal risk without suitable training. Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. First aid responders are advised to wear

protective equipment as found in Section 8 of this safety data sheet.

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5. FIREFIGHTING MEASURES

Extinguishing Media Suitable extinguishing media: Foam, dry powder, carbon dioxide (CO₂), water spray,

Extinguishing media which must not be used for safety reasons: Do not use a heavy

water stream.

Special Hazards Arising from the

Substance or Mixture

No information available.

Special Protective Equipment and

Precautions for Firefighters

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting

water from entering environment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency

Procedures

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. See Section 8 of this safety data sheet for additional

information.

Environmental precautions: Prevent entry to sewers or public waters.

Methods and Materials for Containment and Cleaning Up Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly

labeled containers.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Protective measures: This product contains quartz which may become airborne without a visible cloud. Avoid breathing dust. Wear protective equipment to prevent skin and eye contact. Avoid creating dust.

Advice on general occupational hygiene: Wash hands after handling and before eating. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly. See also Section 8 for additional information on hygiene measures.

Conditions for Safe Storage, **Including Any Incompatibilities** Use good housekeeping in storage and work areas to prevent accumulation of dust. Tightly close container when not in use. Store in cool, dry area away from incompatible materials (see Section 10 of this safety data sheet).

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational exposure limits:

2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 2004 200				
Product/ingredient	OSHA PEL-TWA	ACGIHTLV-TWA	NIOSH REL-TWA	
Name				
Calcium carbonate	15 mg/m³ (total	10 mg/m ³	10 mg/m³ (total	
(CAS No. 471-34-1)	dust); 5 mg/m3		dust); 5 mg/m3	
	(respirable		(respirable	
	fraction)		fraction)	

Appropriate Engineering Controls

Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Individual Protection Measures, Such as Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Wear safety glasses or goggles to protect against exposure. **Hand protection:** Normal work gloves.

Body protection: Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved. **Respiratory protection:** If significant exposures are possible then the following respirator is recommended: dust/mist respirator (N95, P2/P3). All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White solid flakes.

Odorless.

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Odor Threshold Not applicable.

pH Not applicable.

Melting Point/Freezing Point 520°C.

Initial Boiling Point and Boiling Range 825°C.

Flash Point Not applicable.

Evaporation Rate Not available.

Flammability (solid, gas) Not applicable.

Upper/Lower Flammability or Explosive LimitsNot applicable.

Vapor Pressure Not applicable.

Vapor Density Not applicable.

Relative Density 2.93 g/cm³.

Solubility 0.00153 g/100 ml (in water).

Partial coefficient (n-octanol/water) Not available.

Auto-ignition Temperature Not available.

Decomposition Temperature Not available.

Viscosity Not available.

10. STABILITY AND REACTIVITY

Reactivity This product is stable.

Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions Reacts violently with acids.

Conditions to Avoid Direct sunlight. Extremely high or low temperatures.

Incompatible Materials Strong acids. Strong oxidizers.

Hazardous Decomposition Products Carbon monoxide (CO₂), carbon dioxide (CO₂), calcium oxides (CO_X).

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11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute toxicity:

Oral LD ₅₀	Dermal LD ₅₀	Inhalation LD ₅₀
6450 mg/kg (rat)	No data available	No data available

Irritation/Corrosion: Causes skin irritation. Causes eye irritation.

Sensitization: No information available. **Mutagenicity:** No information available. **Carcinogenicity:** No information available

Reproductive toxicity: No information available.

Teratogenicity: No information available.

Specific target organ toxicity (single exposure): May cause respiratory irritation. **Specific target organ toxicity (repeated exposure):** Causes damage to organs (lungs)

through prolonged or repeated exposure if inhaled.

Aspiration hazard: Not applicable.

Information on Likely Routes of

Exposure

Routes of entry anticipated: Oral; dermal, inhalation.

Inhalation: No specific data. Skin contact: No specific data. Eye contact: No specific data. Ingestion: No specific data.

Symptoms Related to the Physical,

Chemical and Toxicological

Characteristics

Inhalation: No specific data.

Skin contact: No specific data.

Eye contact: Causes eye irritation.

Ingestion: No specific data.

Delayed and Immediate Effects, and also Chronic Effects From Short and

Long-term Exposure

See the Information on Toxicological Effects in this section of the safety data sheet.

Numerical Measures of Toxicity

Acute toxicity estimate: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity No information available.

Persistence and Degradability The methods for determining biodegradability are not applicable to inorganic

substances.

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Bioaccumulative Potential No information available.

Mobility in Soil No information available.

Other Adverse Effects No information available.

13. DISPOSAL CONSIDERATIONS

Description of Waste Residues and Information on Their Safe Handling and Methods of Disposal, Including the Disposal of Any Contaminated Packaging The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional or local authority requirements. If possible, recover the product. Otherwise, dispose of in an authorized landfill or incinerate in accordance with local regulation. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Do not reuse container.

14. TRANSPORT INFORMATION

UN Number Not regulated.

UN Proper Shipping Name Not regulated.

Transport classes Not regulated.

Packing Group Not regulated.

Environmental Hazards Not applicable.

Transport in Bulk (according to Annex II of MARPOL 73/78 and the

IBC Code)

Not applicable.

Special Precautions For User Transport within user's premises: Always transport in closed containers that are upright

and secure. Ensure that persons transporting the product know what to do in the event

of an accident or spillage.

15. REGULATORY INFORMATION

U.S. Federal Regulations CERCLA: Hazardous Substance List: Not applicable.

SARA Title III, Section 302/304 Extremely Hazardous Substances: Not applicable.

SARA Title III, Section 311/312 Hazard Categories:

Skin corrosion/irritation. Eye damage/irritation.

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Specific target organ toxicity (single exposure).
Specific target organ toxicity (repeated exposure).

SARA Title III, Section 313 Toxics Release Inventory (TRI) Program: Not

applicable.

TSCA:

TSCA 8(a) CDR Exempt/Partial Exemption: Not determined.

TSCA 8(b) Chemical Inventory: All components are listed or exempted.

International Inventories Australia (AICS): Not determined.

Canada (DSL): All components are listed or exempted.

China (IECSC):

European Union (EINECS/ELINCS):

Japan (ENCS):

Not determined.

United States (TSCA): All components are listed or exempted.

16. OTHER INFORMATION

Prepared By Product Safety Committee

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Updates from Previous Revision Updated all section to GHS format.

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Acronyms and Abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

AICS Australian Inventory of Chemical Substances

CAS Chemical Abstract Services (division of the American Chemical Society)

CDR Chemical Data Reporting

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations
DSL Domestic Substances List

EC₅₀ Half Maximal Effective Concentration

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EINECS / ELINCS European Inventory of Existing Chemical Substances / European List of Notified Chemical Substances

ENCS Existing and New Chemical Substances

IBC International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IECSC Inventory of Existing Chemical Substances Produced or Imported in China

KECL Korean Existing Chemical List

LC₅₀ Lethal concentration for 50 percent of the test population

LD50 Lethal dose for 50 percent of the test population
LL0 Lethal load for 0 percent of the test population
LEthal load for 50 percent of the test population

MARPOL 73/78 International Convention for the Prevention of Pollution from Ships

mg/kg Milligram per kilogram
mg/l Milligram per liter
mg/m³ Milligram per cubic meter

MSHA Mine Safety and Health Administration
NECI National Existing Chemical Inventory

NIOSH National Institute for Occupational Safety and Health

NZIOC New Zealand Inventory of Chemicals

OSHA Occupational Safety and Health Administration, U.S. Department of Labor

PEL Permissible Exposure Limit

PICCS Philippines Inventory of Chemicals and Chemical Substances

ppm Part per million

SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act
TWA Time-weighted Average

UN United Nations U.S. United States

END OF SAFETY DATA SHEET

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