

Safety Data Sheet (SDS)

The content and format of this SDS is accordant with GHS standard.

1. Identification of the substance/preparation and of the company/undertaking

Product details:

Product name: RIO TUBA MILK OF LIME PRODUCTS

Recommended use of the chemical and restrictions on use: Water and sewage treatment, pH adjustment and metallurgical processing. Restrictions on use: NOT use it in an application which may contaminate food or do harm to human health.

Manufacturer/Supplier: GRAYMONT

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Department: --

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Further information obtainable from: GRAYMONT

Information in case of emergency (in Philippines): 63 2 8231 2149 (English, Tagalog)

Available 24 hours a day / 7 days a week

Information in case of emergency (Asia-Pacific countries outside Philippines): 65 3158 1074 (English, Bengali, Cantonese, Indonesian, Hindi, Japanese, Korean, Malay, Sinhalese, Urdu, Tagalog, Thai, Vietnamese)

Available 24 hours a day / 7 days a week

2. Hazards identification

GHS classification:

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation - Category 2

Serious eye damage/eye irritation - Category 1

Carcinogenicity - Category 1A (It is only respirable when it is dried or in powdered form)

Specific target organ toxicity, single Exposure - Category 3 (Respiratory tract irritation)

Environmental hazards

Not classified.

Signal Word: Danger

Pictogram:



Hazard Statements:

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H350: May cause cancer (It is only respirable when it is dried or in powdered form).

Precautionary Statements:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response Precautionary Statements:

P302 + P352: IF ON SKIN: Wash with plenty water.

P321: Specific treatment (Please see the specific measures included on product label, or go to hospital for treatment).

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

Storage precautionary statements:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal precautionary statements:

P501: Dispose of contents/container according to relevant local and national regulations (It is recommended to use methods of neutralization to dispose of waste).

3. Composition/information on ingredients

Product description: substance (); preparation/mixture (✓)

Ingredient (s)	CAS No.	EC No.	% by weight
Calcium hydroxide	1305-62-0	215-137-3	22
Calcium Carbonate	471-34-1	207-439-9	<1
Calcium oxide	1305-78-8	215-138-9	<1
Quartz [Silica Crystalline]	14808-60-7	238-878-4	<1
Ingredients determined not to be hazardous, including water	--	--	Balance

Other information: Contains less than 1% respirable crystalline silica.

4. First aid measures

Persons using this product should consult a physician or other medical professional if an accident involving this product results in injury. Specific first-aid measures are as follows:

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

Skin Contact: Wash with plenty water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Eyes Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion: Rinse mouth. Do not induce vomiting without professional instruction. Call a POISON CENTER/doctor if you feel unwell.

Acute effect and delayed effect:

Acute effect: Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.

Delayed effect: May cause cancer (It is only respirable when it is dried or in powdered form).

Personal protective equipment: Wear protective gloves/protective clothing/eye protection/face protection when necessary.

Indication of immediate medical attention and treatment needed, if necessary: Treat according to symptoms and exposure dose.

5. Fire-fighting measures

Extinguishing Media: Use appropriate fire extinguisher for surrounding environment.

Special hazards arising from the chemical: This product is non combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn. Products of combustion may include, and are not limited to: Oxides of calcium, carbon monoxide and carbon dioxide.

Fire Fighting Method:

Shut off air supply.

Extinguish fire from upwind and cool down containers by water spray.

Remove containers from fire area if it can be done without risk.

Deny unnecessary entry to the place around the fire.

Firefighters must wear self-contained breathing apparatus and full protective equipment.

Special actions for fire-fighters: Firefighters must wear self-contained breathing apparatus and full protective equipment.

Check whether the protective equipment is in good condition before use.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use proper personal protective equipment as indicated in Section 8.

Environmental precautions: Keep cleaning run-offs out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

Methods and material for containment and cleaning up:

Small Spill:

Mop up or absorb with an inert dry material (e.g. sand, dry lime) and place in an appropriately labeled waste disposal container.

Large Spill:

Isolate contaminated area and set up a warning board. The persons handling emergency are recommended wearing protective clothing. Do NOT touch spilled material.

Build up dike or dig pit for collection. Containers should be clearly marked for recycling or disposed as waste.

7. Handling and storage

Precautions for safe handling:

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/eye protection/face protection.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated and dry place. Avoid long-time exposure to direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Protect from freezing. Inspect regularly for deficiencies such as damage or leaks. Store in original packages as approved by manufacturer. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

Incompatible substances or mixtures: Strong acids, strong oxidizing agents.

Packing material: No information available.

8. Exposure controls/personal protection

Occupational Exposure Limits:

Ingredients	Philippines Workplace exposure limits -TWA	ACGIH TLV-TWA
Calcium hydroxide (CAS: 1305-62-0)	--	5 mg/m ³
Calcium Carbonate (CAS: 471-34-1)	--	--
Calcium oxide (CAS: 1305-78-8)	5 mg/m ³	2 mg/m ³
Quartz [Silica Crystalline] (CAS: 14808-60-7) *	Total dust: 7.5 mg/m ³ Respirable: 3.33 mg/m ³	0.025 mg/m ³

*: Crystalline silica is a Category 1A carcinogen.

*: TWA (Time Weighted Average): Defined as time-weighted average concentration limits for a normal 8-hour workday, with a total of 40 hours per week.

No biological limits allocated.

Engineering Controls:

Use this product only in closed systems fully or with local exhaust ventilation.

Install emergency eyewash and shower equipment in accordance with national regulations, and / or most recent ANSI Z358.1 requirements

Install washer eyes and safety showers near to the handling and storage area.

Personal Protective Equipment (For workers):

Protection of Hands: Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.



Protection of Eyes: Tight-fitting safety glasses with full face shield should be used. Eye protection should conform to relevant local and national regulations.



Respiratory Protection: If engineering controls are not effective in controlling airborne concentrations below exposure standards, then approved respirators with replaceable high-efficiency particulate filters should be used. Refer to relevant local and national regulations for further information.



Protection of Body: Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.



.General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

9. Physical and chemical properties

General Information	
Form	Slurry
Color	White milky colour
Odor	Odourless
pH Value	12.0
Boiling range	No data available
Melting point/Melting range	580°C
Freezing Point	No data available
Flash Point	No data available
Flammable/Explosive Limits-Lower Vol %	No data available
Flammable/Explosive Limits-Upper Vol %	No data available
Specific Gravity	1.12
Vapor pressure	No data available
Vapor density	No data available
Solubility	No data available

n-octanol/Water partition coefficient	No data available
Autoignition Temperature	No data available
Decomposition temperature	No data available
Odor threshold	No data available
Viscosity	No data available
Evaporation rate	No data available
Flammability (solid, gas, etc.)	Non-flammable

10. Stability and reactivity

Reactivity and Chemical stability: Stable under normal storage conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible materials: Strong acids, strong oxidizing agents.

Hazardous decomposition products: Products of combustion may include, and are not limited to: Oxides of calcium, carbon monoxide and carbon dioxide.

11. Toxicological information

Product Toxicity Data:

Ingredient (s)	CAS number	LD₅₀/LC₅₀ (Median lethal dose)
Calcium hydroxide	1305-62-0	Acute toxicity (oral) LD ₅₀ : 7,340 mg/kg (rat) Data source: ECHA
Calcium Carbonate	471-34-1	Acute toxicity (oral) LD ₅₀ >2,000 mg/kg (rat) Data source: ECHA Acute toxicity (dermal) LD ₅₀ >2500 mg/kg (rat) Data source: ECHA
Calcium oxide	1305-78-8	Acute toxicity (oral) LD ₅₀ >2,000 mg/kg (rat) Data source: ECHA Acute toxicity (dermal) LD ₅₀ >2500 mg/kg (rabbit) Data source: ECHA Acute toxicity (inhalation: dust) LC ₅₀ >6.04 mg/L/4h (rat) Data source: ECHA
Quartz [Silica Crystalline]	14808-60-7	No data available
Classification of the whole product:		Not classified.

Skin corrosion/irritation

Calcium hydroxide (CAS: 1305-62-0): Category 2 (Data source: ECHA)

Calcium oxide (CAS: 1305-78-8): Category 2 (Data source: ECHA)

Classification of the whole product: Category 2

Serious eye damage/eye irritation

Calcium hydroxide (CAS: 1305-62-0): Category 1 (Data source: ECHA)

Calcium oxide (CAS: 1305-78-8): Category 1 (Data source: ECHA)

Sensitisation, skin	Classification of the whole product: Category 1 No classification for this product.
Sensitisation, respiratory	No classification for this product.
Germ cell mutagenicity	No classification for this product.
Carcinogenicity	Quartz [Silica Crystalline] (CAS: 14808-60-7): Category 1A (Data source: IARC-1) (It is only respirable when it is dried or in powdered form) Classification of the whole product: Category 1A (It is only respirable when it is dried or in powdered form)
Reproductive Toxicity	No classification for this product.
Specific target organ toxicity, single Exposure	Calcium hydroxide (CAS: 1305-62-0): Category 3 (Respiratory tract irritation) (Data source: ECHA) Calcium oxide (CAS: 1305-78-8): Category 3 (Respiratory tract irritation) (Data source: ECHA) Classification of the whole product: Category 3 (Respiratory tract irritation)
Specific target organ toxicity, repeated exposure	Quartz [Silica Crystalline] (CAS: 14808-60-7): Category 1 (lung) (Data source: ECHA) Classification of the whole product: Not classified
Aspiration hazard	No classification for this product.
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat, and respiratory system.
Skin	Causes serious irritation. Skin contact will cause redness, itching, and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.
Eye	Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, severe pain, and possible burns, necrosis, permanent damage, and blindness.
Carcinogenicity	Crystalline silica (quartz) is listed as Group 1: Carcinogen to humans, according to International Agency for Research on Cancer (IARC).

12. Ecological information

Ecotoxicity:

Calcium hydroxide (CAS: 1305-62-0):

96h- LC₅₀: 4,630 mg/L, fish (Pimephales promelas) (ECHA)

Calcium Carbonate (CAS: 471-34-1):

96h- LC₅₀ > 100 mg/L, fish (ECHA)

Calcium oxide (CAS: 1305-78-8):

96h- LC₅₀: 457 mg/L, fish (Gasterosteus aculeatus) (ECHA)

Classification of the whole product: Not classified.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Environmental Protection: Prevent this material from entering waterways, drains, and sewers.

13. Disposal considerations

Waste treatment methods:

It is recommended to use methods of neutralization to dispose of waste.

Any disposal practice must be in compliance with country, local, state, and federal laws and regulations.

After contents are completely removed, dispose of its container at hazardous or special waste collection point.

Paste a label on the container indicating the possible hazards of the waste.

14. Transport Information

DOT/Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG:

Proper Shipping Name: Not applicable

Hazard Class: Not applicable

UN Code: Not applicable

Packing Group: Not applicable

Packing Group Symbol: Not applicable

Marine Pollutant (Yes/No): No

EMS NO.: Not applicable

Note:

Check whether the package is completed or sealed before transporting; make sure no damage of packages and prevent goods from falling down during transporting; the transport vehicle should be equipped with facilities for fire-fighting and accidental release handling; do NOT transport this product together with incompatible substances; stay away from fire and areas of high temperature during stopovers.

15. Regulatory information

The Philippines:

Philippine Priority Chemicals List (PCL): Not applicable.

Philippine Inventory of Chemicals and Chemical Substances (PICCS): Ingredients with specific CAS numbers are listed.

List of Chemical Control Order (CCO): Not applicable.

List of Ozone Depleting Substances (ODS): Not applicable.

United States:

Section 355 (extremely hazardous substances): Not listed.

SARA 313: Not listed.

TSCA (Toxic Substance Control Act):

Ingredient (s)	CAS No.	TSCA Inventory
Calcium hydroxide	1305-62-0	Listed
Calcium Carbonate	471-34-1	Listed

Calcium oxide	1305-78-8	Listed
Quartz [Silica Crystalline]	14808-60-7	Listed

Clean Water Act:

Chemical Name	Reportable Quantities	Hazardous Substances	Priority Pollutants	Toxic Pollutants
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Carcinogenicity categories: Quartz [Silica Crystalline] (CAS: 14808-60-7): IARC-1.

EU:

(EC) 1272/2008 Annex VI Table 3.1:

Ingredient(s)	EC No. 1272/2008 Classification	
	CLASS. CODE	HAZARD CODE
Not applicable	Not applicable	Not applicable

Candidate List of Substances of very high concern (SVHC) according to ECHA: Not listed.

REACH Regulation Annex XVII Regulation List: Not listed.

REACH Regulation Annex XIV Authorization List: Not listed.

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

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References:

The fourth revision of GHS

DENR Administrative Order No. 2015-09 GHS Guidance Manual

Full description of some acronyms:

GHS-Globally Harmonized System of Classification and Labelling of Chemicals

CAS-Chemical Abstracts Service

EINECS-European Inventory of Existing Commercial Chemical Substances

IMO-International Maritime Organization

IMDG-International Maritime Dangerous Goods

IATA-International Air Transport Association

ICAO-International Civil Aviation Organization

TSCA-Toxic Substances Control Act

OSHA-Occupational Safety and Health Administration

ACGIH-American Conference of Governmental Industrial Hygienists

The issuing date of the latest version: May 2, 2023.

SDS Version: 1.0

*****The End*****