



MATERIAL SAFETY DATA SHEET

1 PRODUCT IDENTIFICATION

1.1 Product Name	Fine Ground Calcium Carbonate
1.2 Trade Name	DERICAL ; DERICAL P ; ALPHA ; LI-CAL ; TRICAL
1.3 Product Application	Adhesive, Board, cosmetics, household, paints, plastics, rubber, waste treatment
1.4 Synonim	Limestone
1.5 CAS No. & EINECS No.	1317-65-3 & 215-279-6
1.7 Identification of The company	PT BHUMIDANA INDONESIA
Head Office	• Jl. Dr. Rum 16, Bandung, Jawa Barat 40171, Indonesia
Factory	• Jl. Raya Tuban-Semarang Km.18, Desa Temaji, Dusun Karang Anyar, Kec. Jenu, Kab. Tuban, Jawa Timur, Indonesia
1.8 Sales Representative:	• Jl. Pahlawan No.43 E, Surabaya 60174, Indonesia T: +62 31-548-2858 F: +62 31-532-7771

2 INFORMATION ON INGREDIENT

CHEMICAL ANALYSIS

CaCO ₃	%-min	98.50
MgO	%-max	0.50
Fe ₂ O ₃	%-max	0.03
Acid Insoluble content for Raw Material	%	0.20
Moisture content (ISO 787/2)	%-max	0.30



Routes of Exposure

The Calcium Carbonate powder can affect the body if it is inhaled or if it comes in contact with the skin and the eyes.

Summary of Acute Health Hazard

- Skin
- Eyes
- Ingestion
- Inhalation

May cause skin irritation and dry skin.

May cause irritation of the eyes.

May cause gastrointestinal irritation.

Excessive inhalation may cause minor respiratory track irritation.

Summary of Chronic Health Hazard

Chronic ingestion may cause hypercalcemia, alkalosis and kidney damage.

May also produce milk alkali syndrome characterized by neurological symptoms such as irritability, lethargy, stupor and coma.

Effect of overexposure

Repeated inhalation of the Calcium Carbonate powder dust might cause minor respiratory track irritation and chronic cough. Ingestion of large amounts may cause gastrointestinal irritation.

- Ingestion
- Inhalation

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

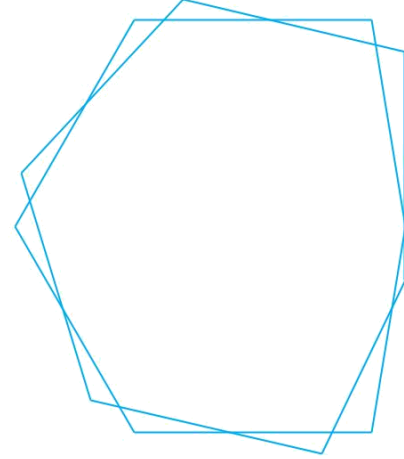
- Skin
- Eyes

Wash the dust from skin with water and soap. Get medical aid if irritation develops or persists.

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

The Calcium Carbonate powder should not be considered a combustible material.

- Person should wear suitable work clothes and use boot shoes.
- Vacuum or sweep up the spilled material in the most convenient and safe manner for reclamation or for disposal in a secured sanitary landfill (non hazardous batch storage tank).
- Minimize dust generation.
- Keep the production area always dry.



7 HANDLING AND STORAGE

- Handle the product as non-hazardous material and minimize dust-generating processes.
- Store the unpackaged product in a non-hazardous batch storage tank.
- Store the product in a dry, well-ventilated area away from incompatible substances.
- Keep away from strong acid.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Personal Protective Equipment
 - Respiratory Protection Quarter mask Respirator.
 - Work / Hygienic Practices Avoid contact with the eyes and inhalation of the Calcium Carbonate powder.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance		White Powder
Odor		Odorless
True S.g Raw Material (ISO 787/7)		2.70
Melting Point	°C	1340
% Volatiles by volume (21°C/70°C)		
Boiling Point		Not Applicable
Hardness Raw Material	Mohs	3.0
Particle Refractive Index		1.59
Flash point		Incombustible
Explosive Properties		Non-explosive
Thermal Decomposition	°C	Above 825
pH Value (ISO 787/9)		9.0 ± 0.3
Vapor Density (Air=1)		No information found
Vapor Pressure	mmHg	No information found
Evaporation Rate (Bu Ac=1)		No information found

10 STABILITY AND REACTIVITY

• Chemical stability	Stable.
• Conditions to avoid	Incompatible materials, acids.
• Incompatibles with Other Materials	Will ignite on contact with fluorine; incompatible with acid, alum, ammonium salts and mercury + hydrogen.
• Hazardous Decomposition Products	Calcium Oxide.
• Hazardous Polymerization	None

11 TOXICOLOGICAL INFORMATION

• Carcinogenicity	None
• Epidemiology	None
• Tetratogenicity	None
• Reproductive Effects	None
• Neurotoxicity	None
• Mutagenicity	None

12 ECOLOGICAL INFORMATION

• Environmental Fate	No Information found
• Environmental Toxicity	No Information found

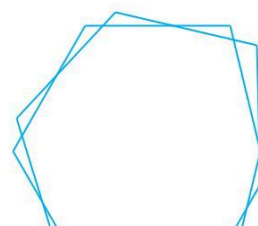
13 DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state and local regulations.
Not suitable for incineration, chemical or biological degradation.

14 TRANSPORT INFORMATION

Transport in closed container to prevent dust dispersion

• DOT Proper Shipping Name	None
• DOT Hazard Class / I.D. No.	None



15 REGULATORY INFORMATION

- Chemical Test Rules
- Clean Air Act

- Clean Water Act

None of the chemicals in this product are under a Chemical Test Rules.
This material does not contain any hazardous air pollutants.
This material does not contain any substances which can deplete the ozone.
None of the chemicals in this product are listed as Hazardous Substances.
None of the chemicals in this product are listed as Priority Pollutants.
None of the chemicals in this product are listed as Toxic Pollutants.

CHEMICAL INVENTORY STATUS

USA	TSCA Inventory listed under CAS no. 1317-65-3.
CANADA	Calcium Carbonate/ Limestone are GRAS by the FDA.
EUROPE/ EG	Limestone is exempt from the PDSL (Naturally occurring substances).
SWITZERLAND	EINECS listed under No. 215-279-6.
JAPAN	Classified as a non-toxic product under number G-7458 CH.
AUSTRALIA	MITI registered under 1-122-122.
CHINA	AGOIN edition 92 listed under CAS No. 1317-65-3. 1317-76-3.

16 OTHER INFORMATION

- Chemical Family / Type | Alkaline

IMPORTANT !

Read this MSDS before use or disposal of this product. Pass along this information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, PT BHUMIDANA INDONESIA makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.