

SAFETY DATA SHEETS

1 IDENTIFICATION OF SUBSTANCES

1.1 Product Details

Product Name	: Calcium Stearate (Powder)
Trade Name	: Palmstar Cast DPC / Cast GN Palmstar Cast 325 Palmstar Cast 325-NF/FCC/BP/USP/EP Palmstar Cast 200 Palmstar Cast 325A Palmstar Cast PLM Palmstar Cast HF
Chemical Name	: Metal salts(s) of Fatty Acids(s), Calcium Stearate.
Chemical Formula	: $[\text{CH}_3(\text{CH}_2)_{16}\text{COO}]_2\text{Ca}$
Molar Mass	: 607
Chemical Family	: Metallic Soap
Manufacturer's Code	: Palmstar Cast DPC / Cast GN Palmstar Cast 325 Palmstar Cast 325-NF/FCC/BP/USP/EP Palmstar Cast 200 Palmstar Cast 325A Palmstar Cast PLM Palmstar Cast HF
	: Pharmaceutical and Food, Industry use

1.2 Company Identification

Manufacturer's Name and Address	: Peter Greven Asia Sdn Bhd 2411, Lorong Perusahaan Satu, Prai Industrial Complex, Penang
Importer's/Distributor's Name and Address	: Not applicable
Telephone Number	: +604-3973495
Emergency Telephone Number	: +604-3973495

1.3 Contact Point

Designation	: 1. Safety & Health Manager/ Officer 2. Quality / Technical Manager
Tel No	: +604-3973495 +604-3973495

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2 HAZARDS IDENTIFICATION

Most important hazards : None

3 COMPOSITION/DATA ON INGREDIENT

<u>Chemical Name</u>	<u>CAS No</u>	<u>Proportion</u>	<u>Exposure Limit</u>	<u>Toxicity Data</u>
[CH ₃ (CH ₂) ₁₆ COO] ₂ Ca	1592-23-0	Contains Calcium salt(s) of fatty acid(s) C ₁₆ -C ₁₈ (~96 - 97%)	Lower : 0.025g/L Upper : Not available	LD 50 (Oral, Rat) : > 10g/kg
Water	7732-18-5	~2 - 3%		
Stearic Acid	57-11-4	~ 1%		

4 FIRST AID MEASURES

Ingestion	:	If swallowed, see a physician and present this data sheet.
Eye contact	:	Flush eyes with profuse water. Remove any contact lenses to ensure thorough flushing. If discomfort persists, consult physician.
Skin contact	:	Clean contaminated skin by washing with water and soap. Remove contaminated clothing.
Inhalation	:	Remove from exposure. Restore breathing. Keep at rest.
Notes to physician	:	The preparation contains calcium compounds, which have negligible solubility in water but can be solubilized by acid.

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media	:	Water, dry chemical, foam, sand.
Unsuitable Extinguishing Media	:	Direct water jet
Protective Equipment	:	Wear self contained respiratory protective device.
Special hazards caused by the material, its product of combustion or resulting gases	:	See chapter 10: Stability & Reactivity
Further information	:	Dispose contaminated water and debris in accordance with official regulations.

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6 ACCIDENTAL RELEASE MEASURE

- Personal Precautions : Wear protective equipments, cover spill with dry sand and mix well.
 Ensure adequate ventilation.
 Avoid generating dusty conditions.
 Keep away from source of ignition.
- Environmental Measure : Do not allow product to reach sewage system or source of water.
- Methods for Cleaning Up : Clean mechanically, collect in a sealed container and label it.
 Send for recovery or disposal at approved sites.

7 HANDLING AND STORAGE

- Handling (information for safe handling) : Avoid raising dust clouds.
 Mixture of dust and air can caused dust explosions.
 Ensure good ventilation/exhaust during handling the material.
 Do not smoke.
- Storage (requirement for storage room and condition) : Store in a dry place at ambient temperature.
- Special storage conditions : Store away from source of ignition or oxidizing chemicals.

8 EXPOSURE CONTROL AND PERSONAL PROTECTION

- a. Exposure limit : Not applicable; observe general threshold limit for dust
- b. Engineering measures : Use adequate ventilation.
 TWA value: 10mg/m³.
- c. Personal protection : Eye protection : Goggles.
 Skin protection : Protect body against dust.
 Hand protection : Neoprene or nitrile rubber gloves.
 Respiratory protection : Use NIOSH approved respirators.

Selection of suitable gloves depends not only on the material but also on the other quality characteristics and varies from manufacturer to manufacturer.

Check conditions of gloves prior to use.

The exact breakthrough time of the glove material varies and can be requested from the glove manufacturer and must be observed. Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	White Fine Powder
Odour	:	Faint fatty odour
Solubility	:	Negligible solubility in water but can solubilized by acid
Boiling Point (°C)	:	Not available
Melting Point (°C)	:	140-160 °C
Vapour Pressure (mm of Hg at 25 °C)	:	Not applicable
Percentage Volatiles	:	Not applicable
Evaporation Rate	:	Not applicable
Vapour Density	:	Not applicable
Specific Gravity	:	1.03
Flash point	:	>100°C
Auto ignition temperature	:	750°F (398.89°C)
Flammable limit (%)	:	Not applicable
Other properties if applicable	:	None
Density (20°C)	:	> 1g/ml

10 STABILITY AND REACTIVITY

Conditions to avoid	:	Dust formation.
Incompatibles	:	Strong oxidizing agents e.g. hydrogen peroxide, chromic acid, etc.
Decomposition products	:	CO, CO ₂ , CaO, Ca(OH) ₂ .
Hazardous polymerization	:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Toxicity Data	:	LD ₅₀ (oral, rat) : >10g/kg
Carcinogenicity	:	No
Reproductive Effect	:	No data available
Effects of overexposure	:	Ingestion : May be harmful, effects not known.
		Skin/ Eye contact: May cause irritation.
		Inhalation : May cause irritation.
Chronic effects	:	None known
Target organs	:	None
Medical conditions Generally Aggravated by exposure.	:	None known

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12 ECOLOGICAL INFORMATION

Mobility & Bioaccumulation	:	Not applicable
Biodegradability	:	Not applicable
Aquatic Toxicity	:	Not applicable

13 DISPOSAL INFORMATION

Product	:	Disposed off in accordance with local, state and federal regulations.
Contaminated Packaging	:	Packaging material contaminated with residues has to be treated as the product itself. Designate landfill subject to applicable local, state and federal regulations.

14 TRANSPORT INFORMATION

Land Transport ADR/ RID	:	Not regulated as a hazardous material.
Maritime Transport IMDG/ GGVSee	:	Not regulated as a hazardous material.
Air Transport ICAO/ IATA-DGR	:	Not regulated as a hazardous material.
UN-Number	:	Not applicable.

15 REGULATORY INFORMATION

It is non hazardous material; R- & S- sentences are not applicable.
 Observe general safety regulations when handling chemicals.

16 OTHER INFORMATION

Always work safely when handling Calcium Stearate (Powder) and wear protective goggles and face mask.

This Safety Data Sheets does not constitute any warranty or guarantee as to the quality, properties, condition or otherwise of the product. It has been prepared from the best knowledge available to us and we shall not be liable for any insufficiency or inaccuracy in such information in any case whatsoever.