

CALCIUM STEARATE

Safety Data Sheet

According to REACH Regulation (1907/2006/EC) and Regulation (EU) 2020/878

Date of Issue : 01-01-2026
Last revision date. : Not applicable

Revision: 00

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Name: Calcium Stearate
Chemical name: Calcium octadecanoate
CAS number: 1592-23-0
EC number: 216-472-8
Registration number under REACH Regulation: A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.
Nanoform: Not applicable

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses:
Manufacture of substances
Uses advised against:
No data available.

1.3. Details of the supplier of the safety data sheet

Manufacturer, importer, or distributor: **Manufacturer**
Name: Waylink Life Science Private Limited
Full address: **Corporate office:**
7, G. C. Avenue, Floor No. 4, Room No. 5 Kolkata – 700013
West Bengal India.

Manufacturing Premises Situated At:
Waylink Life Science Private Limited,
D-7B, D-8 & D-16, Panki Industrial Area, Site-1,
Kanpur – 208022, Uttar Pradesh, India.

E-mail address of the competent person responsible for the Safety Data Sheet: marketing@waylinklifescience.com

1.4. Emergency telephone number

Emergency Phone: (+91) 6291111373 (Mr. Arun Kr Baid – Director)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 on classification, labelling and packaging:

Not classified

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]:

Hazard Pictograms:

Not required.

Signal word:

Not required.

Hazard statements:

Not classified as hazardous according to Regulation (EC) No 1272/2008.

Supplemental hazard information:

Not required.

Precautionary statements:

Not required.

Additional labelling information:

EUH210: Safety data sheet available on request.

2.3. Other hazards

PBT/vPvB: No data available.

Endocrine disrupting properties: Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances:**

Chemical name: Calcium stearate

CAS number: 1592-23-0

EC number: 216-472-8

Index number under CLP Regulation: Not available.

Registration number under REACH Regulation: Not applicable; exempted from registration.

Nanoform: Not applicable

3.2 Mixtures:

Not applicable.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1. General information:

Remove contaminated clothing and shoes. Ensure adequate ventilation. Seek medical advice if symptoms persist or in case of doubt.

4.1.2. Following inhalation:

Remove the affected person to fresh air and keep at rest in a position comfortable for breathing. If respiratory irritation, coughing or other symptoms persist, seek medical attention.

4.1.3. After skin contact:

Wash affected areas thoroughly with soap and plenty of water. If skin irritation occurs or persists, obtain medical advice.

4.1.4. Following eye contact:

In case of contact with eyes, rinse immediately with plenty of water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing and seek medical attention if irritation persists.

4.1.5. After swallowing:

Rinse mouth thoroughly with water. Do not induce vomiting. Seek medical advice if feeling unwell.

4.1.6. Self-protection of the first aider:

Use personal protective equipment as appropriate. Avoid contact with dust and ensure adequate ventilation during rescue.

4.2 Most important symptoms and effects, both acute and delayed

Mild eye irritation.

Mild skin irritation.

Respiratory tract irritation is due to dust inhalation.

Gastrointestinal discomfort if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

No specific treatment required. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water,
Foam.
Carbon dioxide (CO₂),
Dry powder.

Extinguishing media which must not be used for safety reasons:

None specifically, but avoid dispersing large amounts of powder into air, as dust clouds can be a minor fire hazard.

5.2 Special hazards arising from the substance or mixture

Calcium stearate is combustible at elevated temperatures.

Hazardous combustion products may include:

- Carbon oxides (CO, CO₂)
- Small amounts of stearic acid vapors

Finely dispersed dust may form explosive mixtures with air under certain conditions.

5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and protective clothing to avoid inhalation of dust and contact with skin/eyes.

Firefighters should extinguish fires from a safe distance and cool containers exposed to heat with water spray.

Prevent fire-fighting water from entering drains or waterways.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

Prevent entry into drains, surface water, groundwater, or soil.

6.3 Methods and material for containment and cleaning up

Collect mechanically (shovel, broom, vacuum with HEPA filter). Place it in labeled containers; clean residues with damp cloth/water.

6.4 Reference to other sections

See protective measures under point 8 and 13.

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid dust formation and inhalation. Use adequate ventilation and appropriate PPE. Follow good industrial hygiene practices

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Keep container tightly closed. Keep away from strong oxidizing agents.

7.3 Specific end use(s)

Additive, release agent, lubricant in plastics/rubber/food.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits:

No occupational exposure limits established for Calcium Stearate.
Where applicable, apply general nuisance dust limits.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical conditions and measures at process level (source) to prevent release

8.2.2 Individual protection measures, such as personal protective equipment

Respiratory protection:

Not normally required. Use a suitable dust mask/respirator if dust formation occurs.

Hand protection:

Protective gloves.

Eye protection:

Safety glasses are recommended if dust exposure is possible.

Skin protection:

Protective clothing or lab coat.

General protection and hygiene measures:

Avoid contact with dust. Remove contaminated clothing. Wash hands thoroughly after handling.

8.2.3 Environmental exposure controls

Prevent release to drains, water, or soil.



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state, colour	Solid (powder or granules), White to off-white
Odour	Odorless or faint fatty odor.
pH	~9–10 (in 1% aqueous dispersion)
Melting point	~ 140–160 °C.
Freezing point	Not applicable, the substance is solid.
Boiling point / Range	Not applicable (decomposes before boiling).
Flash point	Not applicable, the substance is solid.
Flammability (solid, gas)	Product is not classified as flammable; may form combustible dust clouds.
Lower and upper explosion limit	Not applicable, the substance is solid.
Vapour pressure	Negligible.
Relative density / bulk density	Relative Density ~ 1.1 g/cm ³ ; Bulk density ~ 0.3–0.5 g/cm ³
Solubility	Insoluble in water; soluble in hot ethanol, acetone, benzene, chloroform
Partition coefficient n-octanol/water (log value)	~8–10 (highly lipophilic)
Kinematic viscosity	Not applicable, the substance is solid.
Vapour density	Not applicable, the substance is solid.
Evaporation rate	Not applicable, the substance is solid.
Auto-ignition temperature	> 400 °C (decomposes before ignition)
Decomposition temperature	> 250 °C (thermal decomposition).
Particle characteristics	The product does not contain nanoforms. Typically supplied as powder or granules; particle size varies by grade.

9.2 Other information

9.2.1 Information about physical hazard classes

Explosives	Not classified
Aerosol	Not applicable (product is supplied as a solid/powder/granules).
Gases under pressure	Not applicable (the substance is a solid)
Self-heating substances and mixtures	Not self-heating.
Substances & mixtures, which emit flammable gases in contact with water	Does not emit flammable gases on contact with water.
Self-reactive substances and mixtures	Not self-reactive.
Pyrophoric liquids	Not applicable (the substance is a solid)
Pyrophoric solids	Not pyrophoric.
Flammable liquids	Not applicable (the substance is a solid)
Flammable gases	Not applicable (the substance is a solid)
Flammable solids	Not classified as flammable solid.
Oxidizing liquids	Not applicable (the substance is a solid)
Oxidizing gases	Not applicable (the substance is a solid)
Oxidizing solids	There are no chemical groups that indicate oxidizing properties.
Organic peroxides	Not applicable (the substance is a solid).
Corrosive to metal	Not corrosive to metals.
Desensitised explosives	No data available.

9.2.2 Other safety characteristics

No data available.

SECTION 10. STABILITY AND REACTIVITY**10.1 Reactivity**

See section 10.5.

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

No hazardous polymerization occurs.

10.4 Conditions to avoid

Avoid excessive heat (>250 °C).
Avoid open flames or sources of ignition.
Avoid contact with strong oxidizing agents or strong acids.

10.5 Incompatible materials

Strong oxidizing agents (e.g., peroxides, chromates).
Strong acids may react slowly.
Avoid reactive metals in molten form.

10.6 Hazardous decomposition products

In the event of fire: see section 5



SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Acute effects (acute toxicity, irritation and corrosivity)

11.1.1.1. LD50 oral	2,000 mg/kg body weight (rat) Not classified for acute oral toxicity.
11.1.1.2. LD50 dermal	2,000 mg/kg body weight (rat) Not classified for acute dermal toxicity.
11.1.1.3. LC50 inhalation	No data available
11.1.1.4. Skin corrosion / irritation	No data available
11.1.1.5. Serious eye damage / irritation	No data available
11.1.1.6. Specific target organ toxicity – single exposure	No data available

11.1.2 Sensitization

Respiratory sensitization: No data available

Skin sensitization: No data available

11.1.3 Repeated dose toxicity

Specific target organ toxicity — repeated exposure: No data available

11.1.4 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Reproductive toxicity: No data available

Reproductive toxicity, effects on or via lactation: No data available

11.1.5 Aspiration hazard

No data available

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not applicable.

11.2.2 Other information

No data available.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

This substance does not contain any components identified as having endocrine-disrupting properties for human health or the environment in accordance with Article 57(f) of REACH, the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, or classified as endocrine disruptors under Regulation (EC) No 1272/2008 as amended by Commission Regulation (EU) 2023/707, at concentrations $\geq 0.1\%$ (w/w).

12.7 Other adverse effects

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with local, regional, and national regulations. Avoid release into the environment.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number or ID number	Not a hazardous material with respect to these transportation regulations.
14.2 UN proper shipping name	Not a hazardous material with respect to these transportation regulations.
14.3 Transport hazard class(es)	Not a hazardous material with respect to these transportation regulations.
14.4 Packing group	Not a hazardous material with respect to these transportation regulations.
14.5 Environmental hazards	Not a hazardous material with respect to these transportation regulations.
14.6 Special precautions for user No data available.	
14.7 Maritime transport in bulk according to IMO instruments Not applicable	

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EU) 2020/878.

15.2 Chemical safety assessment

Not carried out.

SECTION 16. OTHER INFORMATION

Revision 00: Safety Data Sheet format prepared as per EU-REACH guidelines for Calcium Stearate.

The information contained in this brochure is a guide for the user and based on both reference texts and on our own experience. It is intended to reflect the current state of the art but shall under no circumstances compromise our liability. This information cannot be used as a substitute for patented processes. Users shall comply with the legal dispositions and regulations in force, particularly those relating to Health and Safety and the Storage and Transport of Dangerous Goods.

Abbreviations:

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS – Chemical Abstracts Service

CLP – Classification, Labelling and Packaging Regulation (EC) No 1272/2008

EC – European Community

ECHA – European Chemicals Agency

IATA – International Air Transport Association

IMDG – International Maritime Dangerous Goods Code

IMO – International Maritime Organization

LC₅₀ – Lethal Concentration, 50%

LD₅₀ – Lethal Dose, 50%

PBT – Persistent, Bioaccumulative and Toxic

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

SDS – Safety Data Sheet

STOT – Specific Target Organ Toxicity

vPvB – very Persistent and very Bioaccumulative