



SAFETY DATA SHEET

CALCIUM STEAROYL LACTYLATE (CSL)

Revision Date: May 2014

Previous date: January 2011

Print Date: May 2014

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

1.1 Product information

Commercial Product Name

NIACET Calcium Stearoyl Lactylate (CSL)

Chemical Formula $C_{42}H_{70}O_8Ca$

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

Use of the Substance/Mixture

Food Additive - emulsifier

Recommended restrictions on use

Reserved for industrial and professional use

1.3 Details of the supplier of the safety data sheet

Niacet Corporation

400 47th Street

Niagara Falls, NY

14304 U.S.A.

Telephone +1 716-285-1474 Telefax +1 716-285-1497

niacetcsr@niacet.com

1.4 Emergency telephone number

For Niacet Corporation, Niagara Falls, U.S.A. products:

Chemtrec: +1 (800) 424 9300, +1 (703) 527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to OSHA Hazards

Not classified as a hazardous substance or mixture

2.2 Label elements

Labeling according to GHS Label elements, including precautionary statements

2.3 Other hazards

Not a hazardous substance or mixture



SAFETY DATA SHEET

CALCIUM STEAROYL LACTYLATE (CSL)

Revision Date: May 2014

Previous date: January 2011

Print Date: May 2014

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name: Calcium Stearoyl Lactylate
Formula: $C_{42}H_{70}O_8Ca$
Synonyms: Octadecanoic Acid, 2-(carboxyethoxy)-1-methyl-2-oxothyl ester, Calcium salt
CAS-No. 5793-94-2
EC-No. 227-335-7

4. FIRST AID MEASURES

4.1 Description of first aid measures

General

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact

Wash area with soap and water. Get medical attention if irritation persists

Eye Contact

Flush thoroughly with plenty of water for at least 15 minutes and consult a physician

Ingestion

Wash mouth out with water. Get medical attention

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treatment : No information available.

5. FIREFIGHTING MEASURES – NOT FLAMMABLE OR COMBUSTABLE

5.1 Extinguishing media

Appropriate media for surrounding fire

5.2 Specific hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions. – Carbon Monoxide

5.3 Special protective actions for fire-fighters

Wear self contained breathing apparatus and protective clothing

5.4 Further Information



SAFETY DATA SHEET

CALCIUM STEAROYL LACTYLATE (CSL)

Revision Date: May 2014

Previous date: January 2011

Print Date: May 2014

Avoid dispersion of dust

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing including a respirator or dust mask.

6.2 Environmental precautions

Sweep up spillage and collect for disposal. Wash down area with large quantities of water

6.3 Methods and materials for containment and cleaning up

Material is biodegradable. Dispose of in accordance with applicable Federal, State and local regulations

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Dust in high concentration may cause irritation of eyes, nose and throat. Handle with reasonable care

7.2 Conditions for safe storage, including any incompatibilities

Hygroscopic, keep container closed. Keep cool <80° F (26°C)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limit Values

Contains no substances with occupational exposure limit values

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

8.2.2 Individual protection measures, such as personal protective equipment

Hand protection

Plastic or rubber gloves optional

Eye protection

Eye protection should always be worn when working with chemicals. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Appropriate work apparel.

Respiratory protection

Material should be handled in a manner that does not produce airborne particles. If dust is a problem, a dust mask or respirator is recommended. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene Measures

Wash with soap and water



SAFETY DATA SHEET

CALCIUM STEAROYL LACTYLATE (CSL)

Revision Date: May 2014

Previous date: January 2011

Print Date: May 2014

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information (appearance, odor)

Physical state	Powder / Flakes
Color	Cream Colored
Odor	Sweetish/Slight

Important health safety and environmental information

Flash point	222°C by Tag Closed Cup
Melting point / freezing point	42-52°C – lit.
pH	No data available
Boiling point	No data available
Ignition temperature	No data available
Auto-ignition temperature	No data available
Explosion limits	No data available
Vapor pressure	No data available
Specific Gravity	No data available
Water solubility	Slight
Partition coefficient: noctanol/water	No data available
Viscosity	No data available
Relative Vapor Density	No data available
Odor Threshold	No data available
Evaporation rate	No data available
Flammability	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.



SAFETY DATA SHEET

CALCIUM STEAROYL LACTYLATE (CSL)

Revision Date: May 2014

Previous date: January 2011

Print Date: May 2014

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization will not occur

10.4 Conditions to avoid

Conditions to avoid : Temperatures <80° F (26°C)

10.5 Incompatible materials

Materials to avoid: Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. – Carbon Monoxide

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Sodium Stearoyl Lactylate is a non-toxic food additive permitted for direct addition to food for human consumption as listed in 21 CFR 172.846

Information on the likely routes of exposure

Inhalation: Can cause respiratory irritation

Ingestion: If swallowed in large quantity, can cause irritation

Skin contact: Prolonged skin contact may cause irritation

Eye contact: Can cause irritation

Signs and Symptoms of Exposure

Dust in high concentration may cause irritation of eyes, nose and throat.

Acute toxicity: No data available

Irritation and corrosion: No data available

Sensitization: Respiratory or Skin - No data available

Long term toxicity

Carcinogenicity: IARC: No
NTP: No
OSHA: No



SAFETY DATA SHEET

CALCIUM STEAROYL LACTYLATE (CSL)

Revision Date: May 2014

Previous date: January 2011

Print Date: May 2014

Reproductive: No Data Available

Specific Target Organ: No Data Available. (single exposure; Globally Harmonized System)
No Data Available (repeated exposure; Globally Harmonized System)

Aspiration Hazard: No Data Available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity effects

Aquatic toxicity

No data available

Toxicity to other organisms

No data available

12.2 Persistence and degradability

Biological degradability: Material is biodegradable

Readily biodegradable: 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 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Material is biodegradable. Dispose of in accordance with federal, state and local regulations
Contaminated Packaging	Dispose of as unused product in accordance with federal, state and local regulations



SAFETY DATA SHEET

CALCIUM STEAROYL LACTYLATE (CSL)

Revision Date: May 2014

Previous date: January 2011

Print Date: May 2014

14. TRANSPORT INFORMATION

14.1 UN number	Not classified as dangerous goods
DOT (US)	Not classified as dangerous in the meaning of transport regulations
IMDG	Not classified as dangerous in the meaning of transport regulations
IATA	Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

OSHA Hazards: None
SARA Title III, Section 302 None
TSCA Inventory: Yes (all ingredients)

Massachusetts Right To Know Component: Calcium Stearoyl Lactylate CAS-No. 5793-94-2

Pennsylvania Right to Know Component: Calcium Stearoyl Lactylate CAS-No. 5793-94-2

New Jersey Right To Know Component: Calcium Stearoyl Lactylate CAS-No. 5793-94-2

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other regulation: None known.

15.2 Chemical Safety Assessment

Not applicable

16. OTHER INFORMATION

Training advice

Read the safety data sheet before using the product.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



SAFETY DATA SHEET

CALCIUM STEAROYL LACTYLATE (CSL)

Revision Date: May 2014

Previous date: January 2011

Print Date: May 2014

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions