

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



SECTION 1: Identification of the substance or mixture and the company or undertaking

1.1 Product identifier

Product type : Substance
Trade name : Zinc Stearate Ultrafine
Label name : Zinc Stearate Ultrafine
Chemical name : Zinc Distearate, Zinc Dioctadecanoate, Dibasic Zinc Stearate.
CAS number : 557-05-1
EC number : 209-151-9

1.2 Recommended and restricted uses of the substance or mixture

Recommended uses : Industrial, lubricants, personal care, pharmaceuticals, pesticide additives, plastic additives, coating additives, cement additives and textile additives.
Restricted uses : None known.

1.3 Company identification

Company name : Chemical Associates – A Division of Univar USA Inc.
Company address : 1270 South Cleveland Massillon Road
: Copley, OH 44321-1683
Company telephone : 330-666-5200

1.4 Emergency telephone number

Company emergency telephone : 800-347-2891
CHEMTREC telephone : 800-424-9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (29CFR1910.1200 Appendix A) : None.
GHS physical hazard : None.
GHS health hazard : None.
GHS environmental hazard : None.

2.2 Label warnings of the substance or mixture

Signal word : None.

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



Hazard statements : None.
Precautionary statements : None.
Hazard symbol (pictogram) : None.

2.3 Hazards not otherwise classified

Other hazards : OSHA TWA 5 mg/m³ respirable dust.
: OSHA TWA 15 mg/m³ total.
: Refer to Section 8.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Common name	Percent	CAS number	Health hazard
Zinc Dioctadecanoate	Zinc Stearate	100	557-05-1	None

3.2 Mixtures

Chemical name	Common name	Typical %	CAS number	Health hazard
Not applicable.				

SECTION 4: First-aid measures

4.1 Description of first-aid measures

Exposure route

Inhalation

Skin contact

Eye contact

Ingestion

First-aid measure

: Remove the victim into fresh air. Observe victim's breathing. If breathing is labored seek immediate medical attention.

: Wash immediately with soap and water. If irritation occurs, seek medical attention. Launder contaminated clothing.

: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses if present and easy to do. If irritation occurs, seek immediate medical (ophthalmologist) attention.

: Rinse mouth with plenty of water. For ingestion of large quantities seek immediate medical attention. Do not induce vomiting. Contact poison control center.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms after inhalation : May experience dizziness and headache.
: Irritation of the nose and throat.

Symptoms after skin contact : Mild irritation of the skin may occur.

Symptoms after eye contact : Mild irritation of the eye tissue may occur.

Symptoms after ingestion : Mild tingling of the tongue and mouth.
: May cause gastrointestinal irritation, nausea and vomiting.

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



4.3 Indication of any immediate medical attention and special treatment needed

Treatment after inhalation	: If breathing is labored seek immediate medical attention.
Treatment after skin contact	: If skin irritation occurs seek immediate medical attention.
Treatment after eye contact	: If eye irritation occurs seek immediate ophthalmologist attention.
Treatment after ingestion	: If ingestion of a large quantity seek immediate poison control center.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable media	: Carbon dioxide, foam, dry chemical and water spray.
Unsuitable media	: None known.

5.2 Specific hazards arising from the substance or mixture

Direct fire hazard	: Not flammable.
Indirect fire hazard	: Exposure to temperature above the flash point (277°C). : Dust explosion hazard.
Explosive hazard	: Exposure to temperature above the flash point (277°C). : Dust explosion hazard.
Reactivity	: Reactivity with oxidizers and acids.
Combustion products	: Carbon dioxide, carbon monoxide, zinc oxide and zinc.

5.3 Special protective equipment and precautions for fire-fighters

Protective equipment	: Full protective clothing. : Self contained breathing apparatus.
Precautions	: Material will burn, but not ignite readily. : Material is a dust explosion hazard. : Contact may cause irritation to eyes. : Fire may produce irritating and/or toxic gases. : Runoff from fire control may cause pollution.
Emergency response guide	: Not a hazardous material.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: If substance is a dust, stay upwind.
Protective equipment	: Wear rubber gloves, rubber boots, face shield and chemical hazard suit. If material is a dust wear dust mask or self contained breathing apparatus.
Emergency procedures	: Mark the spill area with hazard tape or cones. Contain the spill area. Keep away from streams, rivers and lakes. If substance is a dust, alert immediate neighborhood to close windows and doors. Contain

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



and dissipate dust via spraying with water.

6.2 Environmental precautions

Precautions : Keep out of streams, rivers and lakes. Substance is regulated as oil under the Clean Water Act. Abide by all laws per this regulation.

6.3 Methods and materials for containment and cleanup

Methods : Use broom to sweep and collect substance.
: Use shovel to collect substance from ground contamination and transfer into containers for disposal.

Materials : Substance is a powder and cannot be collected via absorbent materials.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling temperature : About 10 - 40°C in bags.
: About 10 - 35°C in bulk solid granule or powder form.

Handling equipment : Polyethylene, polyvinylchloride, rubber and stainless steel (grade 304) for lines and hoses. Forced dry air or nitrogen for granule or powder transport through lines.

7.2 Conditions for safe storage, including any incompatibilities

Storage area : Store in dry area. Store at room temperature. Store in dyke area to contain any spills. Protect from heat.

Packaging materials : Polyethylene lined paper bags.

Incompatibilities : Oxidizers and acids.

SECTION 8: Exposure controls/personal protection

8.1 Exposure controls

OSHA PEL : TWA 5 mg/m³ respirable.
: TWA 15 mg/m³ total.

ACGIH TLV : TWA 10 mg/m³.

NIOSH REL : TWA 5 mg/m³ respirable.
: TWA 10 mg/m³ total.

8.2 Appropriate engineering controls

Engineering controls : If a dust exists, install ventilation equipped with filters. Ventilation should be 10 air exchanges per hour. Local exhaust ventilation is recommended.

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



8.3 Personal protection equipment

Personal protective equipment : Rubber gloves and safety glasses. Dust mask if dust exists.
Personal protective equipment :
pictograms



SECTION 9: Physical and chemical properties

9.1 Physical and chemical properties

Appearance : Fine white powder.
Odor : Faint fatty.
Odor threshold : No data available.
pH : No data available. Substance is not readily soluble in water.
Melting point : 130°C.
Boiling point : Decomposes.
Flash point : 277°C, Open Cup.
Evaporation rate : No data available.
Flammability : Not flammable.
Lower flammability limit : 15 g/m³ particles less than 74 microns.
Upper flammability limit : 20 g/m³.
Upper flammability limit : No data available.
Vapor pressure : No data available.
Vapor density : No data available.
Density : 1.095 g/cm³ at 70°C.
Solubility : Soluble in benzene.
Partition coefficient for n-octanol/water : Insoluble in water.
Partition coefficient for n-octanol/water : No data available.
Auto-ignition temperature : 420°C.
Decomposition temperature : No data available.
Viscosity : No data available.

9.2 Other information

Other information : No additional information available.

SECTION 10: Stability and reactivity

Reactivity : May react violently with oxidizers and strong acids.
Chemical stability : Stable under storage conditions.

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Avoid formation of dust and aerosols. Substance is a dust explosion hazard. : Pressure, shock, static discharge or vibration does NOT result in a hazardous condition.
Incompatible materials	: Oxidizers and acids.
Hazardous decomposition products	: Carbon dioxide, carbon monoxide, zinc oxide and zinc.

SECTION 11: Toxicological information

11.1 Information on the likely routes of exposure

Inhalation exposure	: From dust.
Skin exposure	: From dust.
Ingestion exposure	: Not a likely route of exposure.
Eye contact	: From dust.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Labored breathing and irritation of the lungs may occur.
Skin contact	: Mild skin irritation may occur.
Ingestion	: Mild irritation of the mouth, tongue, esophagus and stomach may occur.
Eye contact	: Mild eye irritation may occur.

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure

Inhalation	: Chronic effects are not known.
Skin contact	: Chronic effects are not known.
Ingestion	: Chronic effects are not known.
Eye contact	: Chronic effects are not known.

11.4 Numerical measures of toxicity

Oral LD50	: Rat > 5000 mg/kg.
Skin LD50	: Rabbit > 2000 mg/kg.
Ingestion LD50	: No data available.
Inhalation LD50	: Rat > 200 mg/l 1 hour.
Skin primary irritation	: Rabbit 0.5 g 4 hour no irritation. : Rabbit 500 mg 24 hour no irritation.
Eye primary irritation	: Rabbit Draize no irritation.

11.5 Carcinogenicity

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



National Toxicology Program : Not listed.
International Agency for
Research on Cancer : Not listed.
OSHA : Not listed.
NIOSH : Not listed.

11.6 Other toxicological information

Reproductive toxicity : No data available.
Germ cell mutagenicity : No data available.
Respiratory or skin sensitization : Not listed.
Specific target organ toxicity,
single exposure : No data available.
Specific target organ toxicity,
repeated exposure : No data available.
Aspiration hazard : No data available.

SECTION 12: Ecological information

12.1.1 Ecotoxicity aquatic

Fish LC50 : No data available.
Daphnia EC50 : > 100 mg/l.
Rotifer EC50 : No data available.
Algae EC50 : No data available.

12.1.2 Ecotoxicity terrestrial

Ecotoxicity terrestrial : No data available.

12.2 Persistence and degradability

Water : No data available.
Soil : No data available.
Air : No data available.

12.3 Bio-accumulative potential

Log Kow : No data available.

12.4 Mobility in soil

Surface tension : No data available.
Soil mobility : No data available.

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available.

12.6 Other adverse effects

Air : Not dangerous to the ozone layer.
Water : Mild pollutant to surface of water.

SECTION 13: Disposal considerations

13.1 Description of waste residues

Storage tank residues : Solid residue from tank cleaning.
Empty package residues : Solid residue remaining in emptied package container.
Transport trailer residues : Solid residue from transport trailer cleaning.
Absorbent material : Not a waste residue.

13.2 Safe handling of waste residues

Storage tank residues : Refer to section 7 for safe handling.
Empty package residues : Refer to section 7 for safe handling.
Transport trailer residues : Refer to section 7 for safe handling.
Absorbent material : Not a waste residue.

13.3 Methods of disposal

Storage tank residues : Dispose via an approved incineration facility.
: Dispose via an approved land fill facility.
Empty package residues : Dispose only in accordance with local, state and federal regulations.
: Remove package to an approved package cleaning and recycling facility.
Transport trailer residues : Dispose only in accordance with local, state and federal regulations.
: Clean transport trailer at an approved cleaning facility.
: Disposal of cleaning residues must be in accordance with local, state and federal regulations.
Absorbent material : Not a waste residue.

13.4 Hazardous waste classification (RCRA)

Classification	Regulation	Listed	Hazardous waste number
Ignitability	40CFR261.21	No	
Corrosivity	40CFR261.22	No	
Reactivity	40CFR261.23	No	
Toxicity	40CFR261.24	No	

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



SECTION 14: Transport information

14.1 UN number

UN number : None.

14.2 UN proper shipping name

Proper shipping name : None.

14.3 Transport hazard class

Hazard class : None.

Hazard label : None.

Hazard pictogram : None.

14.4 Packing group

Packing group : None.

14.5 Environmental hazards

Marine pollutant : Not listed.

14.6 Transport in bulk

US DOT : Not regulated.

IMDG : Not regulated.

IATA : Not regulated.

MARPOL 73/78 : Not regulated.

IBC code : Not regulated.

14.7 Special precautions for user

Special precautions : No additional information available.

SECTION 15: Regulatory information

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

15.1.1 US regulations

SARA 302 (40CFR355) : Not listed.

SARA 311/312 (40CFR370.66) : Not listed.

CA4812 Zinc Stearate Ultrafine

Safety Data Sheet



SARA 313 (40CFR372.65) : Listed.
CERCLA (40CFR302.4) : Not listed.
California proposition 65 : Not listed.
German WGK class : No data available.

15.1.2 Chemical inventories

TSCA USA : Listed.
AICS Australia : Listed.
DSL Canada : Listed.
EC Europe : Listed.
ECL Korea : Listed.
IECSC China : Listed.
ENCS Japan : Listed.
NzloC New Zealand : Unknown.
PICCS Philippines : Listed.
SWISS Switzerland : Unknown.

15.2 Chemical safety assessment

Safety assessment : Substance is approved as a direct food additive per 21CFR176.170.
: Substance is approved as a direct food additive per 21CFR176.180.
: Substance is approved as an indirect food additive per 21CFR175.105.
: Substance is approved as an indirect food additive per 21CFR175.300.
: Substance is approved as an indirect food additive per 21CFR176.200.
: Substance is approved as an indirect food additive per 21CFR178.2010.
: Substance is approved as an ingredient in over the counter drugs per 21CFR310.545 (a) (1).
: Substance is approved as an ingredient in over the counter drugs per 21CFR310.545 (a) (18) (ii).
: Substance is approved as a nutrient or dietary supplement per 21CFR 582.5994.

SECTION 16: Other information

16.1 Hazard ratings

	Health	Flammability	Physical hazards	Instability
HMIS (USA)	0	1	0	
NFPA (USA)	1	1		0

CA4812 Zinc Stearate Ultrafine Safety Data Sheet



16.2 Safety Data Sheet information

Revision date (MM/DD/YY) : 05/01/2015

Supersede date (MM/DD/YY) : 10/29/09

16.3 Notice to reader

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Chemical Associates – A Division of Univar USA Inc. bears responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.