

MATERIAL SAFETY DATA SHEET

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ZINC STEARATE

Revision date: June 23rd, 2020 **REVISION 3**

Issue date: 21 December 2022

Presentation and rules of drafting in conformity with the regulation (CE) 1907/2006 and amendments.

Modifications versus revision 3 are written in blue colour.

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANIES.

REACH Registration number: 01-2119513214-54-0012

1.1 Name of the substance: Zinc Stearate

1.2 Use of the substance: additive

1.3. Identification of companies:

Supplier: Assistance Distribution Chimie
123 rue Marie Curie
26780 Châteauneuf-du-Rhône
Phone: 33 (0)4 75 54 35 05
E-Mail: contact@adc-chimie.com

Producer: FACI
16042 CARASCO
(GE-ITALIA)

Emergency number: ORFILA 33 (0)1 45 42 59 59

ANTI-POISON CENTERS:

Paris: 33(0) 1 40 05 48 48 –

Angers: 33 (0)2 41 48 21 21

Bordeaux: 33 (0)5 56 96 40 80

Lille: 0 825 812 822

Lyon: 33 (0)3 4 72 11 69 11

Marseille: 33(0) 4 91 75 25 25

Nancy: 33 (0)3 83 32 36 36

Rennes: 33 (0)2 99 59 22 22

Strasbourg: 33 (0)3 88 37 37 37

Toulouse: 33 (0)5 61 77 74 47

Toxicovigilance centers: GRENOBLE – REIMS - ROUEN

2. HAZARDS IDENTIFICATION:

- Classification according to Regulation (EC) N°1272/2008 (CLP): Not classified
- Physical hazards: May form combustible dust concentrations in the atmosphere.
- Labelling according to Regulation (EC) N°1272/2008 (CLP): No labelling applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS:

3.1 Main component

Zinc stearate

3.2 EINECS N°

Formula

CAS N°

293-049-4

$C_{18}H_{36}O_2 \cdot \frac{1}{2}Zn$

91051-01-3

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4 FIRST AID MEASURES:

4.1 Inhalation:

Remove person to uncontaminated area. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention.

4.2 Skin contact:

Gently wash with plenty of soap and water. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

4.3 Eyes contact:

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

4.4 Ingestion:

Get immediate medical advice/attention. Do not induce vomiting without medical advice.

5. FIRE FIGHTING MEASURES:

5.1 Extinguishing media:

Suitable: carbon dioxide (CO₂), water, dry chemical powder. For large fire: Foam. Flood fire area with water from a distance.

Unsuitable: Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture:

5.2.1 Fire hazard: Potential dust explosion hazard from airborne release. High concentrations of dust or fine particulate in enclosed spaces may represent a fire/explosion risk.

5.2.2 Explosion hazard: Potential dust explosion hazard from airborne release. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.2.3 Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3 Advice for firefighters:

5.3.1 Precautionary measures fire: Avoid generation of dust. Keep container tightly closed and away from heat, sparks and flame.

5.3.2 Firefighting instructions: Move undamaged containers from immediate hazard area if it can be done safely. Stay upwind/keep distance from source.

5.3.3 Protective equipment for firefighters: Use self-contained breathing apparatus and chemically protective clothing. Wear fire/flame resistant/retardant clothing.

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6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal precautions:

6.1.1 In case of non-emergency:

Protective equipment: Wear suitable protective clothing. Wear recommended personal protective equipment.

Emergency procedures: Avoid breathing dust. Immediately contact emergency personnel. Evacuate area.

Measures in case of dust release: Mechanically ventilate the spillage area.

6.1.2 In case of emergency:

Protective equipment: In case of fire: Wear self-contained breathing apparatus. Wear suitable protective clothing. Wear recommended personal protective equipment.

Emergency procedures: Evacuate and limit access. Take precautionary measures against static discharge. Avoid breathing dust. Material spilled on hard surface can present a serious slipping/falling hazard.

Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

6.2 Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

6.3 Methods and material for containment and cleaning up:

6.3.1 For containment: Contain the spillage using bonding. For larger spills, dike area and pump into waste containers.

Mechanically ventilate the spillage area. Use clean-up methods that avoid dust generation (vacuum wet).

6.3.2 Methods for cleaning up: Avoid creating or spreading dust.

7. HANDLING AND STORAGE:

7.1 Precautions for safe handling:

7.1.1 Additional hazards when processed:

Generation of airborne dust. Dust may form flammable and explosive mixture with air.

7.1.2 Precautions for safe handling:

Do not breathe dust. Use approved industrial vacuum cleaner for removal. Avoid raising powdered materials into Airborne dust. Provide local exhaust or general room ventilation to minimize exposure to dust. Use grounded electrical/mechanical equipment. Use explosionproof equipment.

7.1.3 Hygiene measures:

Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing prior to re-use. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities:

7.2.1 Storage conditions: Store in a dry, cool area. Keep container tightly closed.

7.2.2 Maximum storage period: 24 months

7.2.3 Heat and ignition sources: Keep away from open flames, hot surfaces and sources of ignition.

7.2.4 Special rules on packaging: Keep only in original container.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

8.1 Exposure limit values:

Belgium	Limit value (mg/m ³)	10 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³
Italy	OEL TWA (mg/m ³)	3 mg/m ³ STEARATES (EXCEPT STEARATES OF TOXIC METALS), RESPIRABLE FRACTION
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Portugal	OEL TWA (mg/m ³)	10 mg/m ³
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (total dust)

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Provide adequate ventilation to minimize dust concentrations. Either local exhaust or general room ventilation is usually required. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2 Personal protective equipment:

Gloves. In case of dust production: protective goggles. Protective clothing. Respiratory protection.

8.2.3 Materials for protective clothing:

Wear chemical resistant protective clothing (EN 14605) and protective shoes (S1P or S3)

8.2.4 Hand protection:

Wear suitable gloves tested to EN 374. Thickness of glove material: > 0.11 mm. Breakthrough time: > 480 min.

Nitrile rubber

8.2.5 Eye protection:

In case of dust production: protective goggles. EN 166

8.2.6 Respiratory protection:

Dust production: dust mask with filter type P2

8.2.7 Personal protective equipment symbol(s):



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9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1 Physical form at room temperature:	Solid
Appearance:	Powder
Colour:	White
Odour:	Slightly fatty
9.2 Important health, safety and environmental information:	
pH:	6,5 – 7,5
Boiling point:	not applicable
Flash point:	around 190 °C (C.O.C. method)
Decomposition temperature:	> 200°C
Ignition temperature:	520 °C
Flammability:	15 g/m ³ for particles < 74 µ
Explosive properties:	Product: no Mixture powder/air: yes
Oxidising properties:	not oxidizing
Vapour pressure at 20 °C:	No data available
Density (melted):	1,095 g/m ³
Bulk density:	260-360kg/m ³
Solubility:	soluble in benzene and in dilute acids
Hydro-solubility:	insoluble
Partition coefficient n-octanol/water:	1,2
Viscosity:	No data available

10. STABILITY AND REACTIVITY:

10.1 Reactivity:

Stable under normal conditions of use.

10.2 Chemical stability:

Stable under normal conditions of use

10.3 Possibility of hazardous reactions:

None under normal conditions.

10.4 Conditions to avoid:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5 Incompatible materials:

Oxidizing agent. alkalis.

10.6 Hazardous decomposition products:

Thermal decomposition generates: Calcium oxides. Carbon oxides (CO, CO₂). Zinc oxide.

11. TOXICOLOGICAL INFORMATION:

LD₅₀ oral rat: >5 g/kg.

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12. ECOLOGICAL INFORMATION:

12.1 Toxicity:

12.1.1 Acute aquatic toxicity: Not classified

12.1.2 Chronic aquatic toxicity: Not classified

12.2 Persistence et degradability: biodegradable

12.3 Bioaccumulative potential:

Partition coefficient: n-octanol/water: 1,2

12.4 Mobility in soil:

No additional information available

12.5 Results of PBT and vPvB assessment:

No additional information available.

12.6 Other adverse effects:

No additional information available.

13. DISPOSAL CONSIDERATIONS:

Waste treatment methods: Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws.

14. TRANSPORT INFORMATION:

14.1 Not applicable in the meaning of transport regulations: IMDG, ADR, RID, ADN, IATA.

14.2 No special precautions for user

14.3 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

15. REGULATORY INFORMATION:

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

EU-Regulations:

No REACH Annex XVII restrictions

ZINC STEARATE ST is not on the REACH Candidate List

ZINC STEARATE ST is not on the REACH Annex XIV List

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15.2 National regulations

- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on the Canadian DSL (Domestic Substances List)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on Turkish inventory of chemical
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

Germany

Reference to AwSV: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 3; ID No. 5943)

12th Ordinance Implementing the Federal Immission Control Act - 12. BImSchV: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen: The substance is not listed

SZW-lijst van mutagene stoffen: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: The substance is not listed

Denmark

Classification remarks: Emergency management guidelines for the storage of flammable liquids must be followed.

15.3 Chemical safety assessment:

CSA is not required

The substance is not hazardous

16. OTHER DATA:

R-phrase(s): None

S-phrase(s): None

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17. OTHER INFORMATION:

No restriction for this chemical under normal condition of uses.

This MSDS completes the technical data sheet but does not replace it. The information provided in this Safety Data Sheet is correct to the best of our knowledge information and belief at the date of its revision. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, distribution, uses and cleaning, disposal and release in a security state 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 material or in any process unless specified in the text.

We caution the users to the incurred possible risks when the product is used at other ends than the use for which it is planned.

It exempts under no circumstances the user from knowing and applying all the texts regulating its activity. The user will take under its only responsibility the precautions linked to the use which he makes of the product.

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