Magnesium Stearate NF Powder

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of Issue: 06/29/2015 Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier

Product Form: Mixture

Product Name: Magnesium Stearate NF Powder

CAS No: 557-04-0; 67701-03-5

Synonyms: Fatty Acid, Hydrogenated, magnesium salt

1.2. Intended Use of the Product

Use of the substance/mixture: Per FDA 21CFR - §172.863 Salts of fatty acids ((b) The food additive is used or intended for use as a binder, emulsifier, and anticaking agent in food in accordance with good manufacturing practice; § 173.340 Defoaming agents (3a Use in processing beet sugar and yeast); § 175.105 (c)(5) Adhesives; § 175.300 Resinous and polymeric coatings ((xxii) Driers made by reaction of a metal from paragraph (b)(3)(xxii)(a) of this section with acid, to form the salt listed in paragraph (b)(3)(xxii)(b) of this section in contact with food); § 175.320 Resinous and polymeric coatings for polyolefin films (b)(3)(iii) Adjuvants (release agents, waxes, and dispersants); § 176.170 (a)(5) Components of paper and paperboard in contact with aqueous and fatty foods; § 176.200 (d)(3) Defoaming agents used in coatings; § 176.210 (d)(2) Defoaming agents used in the manufacture of paper and paperboard; § 177.1200 Cellophane; §177.2260 Filters, resin-bonded; § 178.3910 (b) (2) Surface lubricants used in the manufacture of metallic articles. ((b) The following substances may be used in surface lubricants used to facilitate the drawing, stamping, or forming of metallic articles from rolled foil or sheet stock by further processing provided that the total residual lubricant remaining on the metallic article in the form in which it contacts food does not exceed 0.2 milligram per square inch of food-contact surface); §179.45 Packaging materials for use during the irradiation of prepackaged foods, ((2) Films prepared from basic polymers and with or without adjuvants, as follows: (i) Polyethylene film prepared from the basic polymer as described in 177.1520(a) of this chapter. Limitation: Not to exceed 1 percent by weight of the polymer.); § 181.29 Stabilizers

1.3. Name, Address, and Telephone of the Responsible Party

Company

Acme-Hardesty Co
450 Sentry Parkway
Blue Bell, PA 19422
T 866-226-3834 T 215-591-3610
www.acme-hardesty.com

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Comb. Dust

Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : May form combustible dust concentrations in air

2.3. Other Hazards

No additional information available

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Magnesium stearate	(CAS No) 557-04-0	> 98	Comb. Dust
Fatty acids, C16-18	(CAS No) 67701-03-5	< 2	Comb. Dust

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/Injuries: Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Skin contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Eye contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical, water spray, fog. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use water jet. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible Dust.

Explosion Hazard: Dust explosion hazard in air.

Reactivity: Hazardous reactions are not expected to occur under normal conditions.

5.3. Advice for Firefighters

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials.

Methods for Cleaning Up: Minimize generation of dust. Clean up spills immediately and dispose of waste safely.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation. Avoid dust production. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Hygiene Measures: Do not breathe dust. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Protect from moisture. Protect from sunlight. Store in a well-ventilated place. Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s)

Per FDA 21CFR - §172.863 Salts of fatty acids ((b) The food additive is used or intended for use as a binder, emulsifier, and anticaking agent in food in accordance with good manufacturing practice; § 173.340 Defoaming agents (3a Use in processing beet sugar and yeast); § 175.105 (c)(5) Adhesives; § 175.300 Resinous and polymeric coatings ((xxii) Driers made by reaction of a metal from paragraph (b)(3)(xxii)(a) of this section with acid, to form the salt listed in paragraph (b)(3)(xxii)(b) of this section in contact with food); § 175.320 Resinous and polymeric coatings for polyolefin films (b)(3)(iii) Adjuvants (release agents, waxes, and dispersants); § 176.170 (a)(5) Components of paper and paperboard in contact with aqueous and fatty foods; § 176.200 (d)(3) Defoaming agents used in coatings; § 176.210 (d)(2) Defoaming agents used in the manufacture of paper and paperboard; § 177.1200 Cellophane; §177.2260 Filters, resin-bonded; § 178.3910 (b) (2) Surface lubricants used in the manufacture of metallic articles. ((b) The following substances may be used in surface lubricants used to facilitate the drawing, stamping, or forming of metallic articles from rolled foil or sheet stock by further processing provided that the total residual lubricant remaining on the metallic article in the form in which it contacts food does not exceed 0.2 milligram per square inch of food-contact surface); §179.45 Packaging materials for use during the irradiation of prepackaged foods, ((2) Films prepared from basic polymers and with or without adjuvants, as follows: (i) Polyethylene film prepared from the basic polymer as described in 177.1520(a) of this chapter. Limitation : Not to exceed 1 percent by weight of the polymer.); § 181.29 Stabilizers

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

8.2. Exposure Controls

Appropriate Engineering Controls : Avoid dust production. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). . It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Personal Protective Equipment : Dust formation: dust mask. In case of dust production: protective goggles. Gloves.

Hand Protection : protective gloves.

Eye Protection : In case of dust production: protective goggles.

Respiratory Protection : Dust mask.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Solid

Appearance : White powder or granules

Odor : Slight fatty acid odor

Odor Threshold : No data available

pH	:	No data available
Relative Evaporation Rate (butylacetate=1)	:	No data available
Melting Point	:	130 - 150 °C (266 - 302 °F)
Freezing Point	:	No data available
Boiling Point	:	No data available
Flash Point	:	> 177 °C (350.6 °F) Cleveland Open Cup
Auto-ignition Temperature	:	> 371 °C (699.8 °F)
Decomposition Temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor Pressure	:	No data available
Relative Vapor Density at 20 °C	:	No data available
Relative Density	:	1.1 @20°C
Specific Gravity	:	Not available
Solubility	:	Water: Insoluble Ethanol: Insoluble Ether: Insoluble Organic solvent: Soluble in benzene and in heated common solvents. Decomposed by diluted acids.
Partition Coefficient: N-Octanol/Water	:	14.34 (as log Pow)
Viscosity	:	Not available
Explosive Properties	:	No data available
Oxidizing Properties	:	No data available
Explosive Limits	:	Not applicable

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Hazardous reactions are not expected to occur under normal conditions.

10.2 Chemical Stability: Stable at standard temperature and pressure.

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Sparks, heat, open flame and other sources of ignition.

10.5 Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

10.6 Hazardous Decomposition Products: Carbon oxides (CO, CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity : Not classified

Magnesium Stearate NF Powder (\f)557-04-0; 67701-03-5	
Magnesium stearate (557-04-0)	
LD50 Oral Rat	> 2000 mg/kg
Fatty acids, C16-18 (67701-03-5)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat (mg/l)	> 0.16 mg/l/4h

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Magnesium Stearate NF Powder (557-04-0; 67701-03-5)

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Magnesium Stearate NF Powder (557-04-0; 67701-03-5)

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Skin contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Eye contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Fatty acids, C16-18 (67701-03-5)	
LC50 Fish 1	> 10000 mg/l
EC50 Daphnia 1	> 4.8 mg/l
NOEC chronic algae	> 0.9 mg/l

12.2. Persistence and Degradability

Magnesium Stearate NF Powder (557-04-0; 67701-03-5)	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Magnesium Stearate NF Powder (557-04-0; 67701-03-5)	
Bioaccumulative Potential	Not established.

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/IMDG/DOT

14.1. UN Number Not regulated for transport

14.2. UN Proper Shipping Name Not regulated for transport

14.3. Additional Information

Other information : No supplementary information available.

Transport by Sea Not regulated for transport

Air Transport Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Magnesium stearate (557-04-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Fatty acids, C16-18 (67701-03-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations Neither this product nor its chemical components appear on any US state lists.

SECTION 16: OTHER INFORMATION

Revision Date : 06/29/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Comb. Dust	Combustible Dust

	May form combustible dust concentrations in air

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