

SAFETY DATA SHEET

Issue Date 13-Jul-2014

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Version 2

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

Product identifier		
Product Name	Magnesium Stearate Food Grade NF; Magnesium Magnesium Stearate Bulky	Stearate Food Grade NF Vegetable;
Other means of identification		
Biogenix Product Code	26355; 26412; 40335, 4050291	
SDS Code	MAGSTNF	
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended Use	Chemical intermediate. Lubricant.	
Uses advised against	Consumer use	
Details of the supplier of the safety	data sheet	
Supplier Address	Manufacturer Address	
PMC Biogenix, Inc.	PMC Biogenix, Inc.	
1231 Pope Street	1231 Pope Street	
Memphis, TN 38108	Memphis, TN 38108	
USA	USA	
Emergency telephone number		
Company Phone Number	PMC Biogenix Customer Service: 1-800-641-2152	
24 Hour Emergency Phone Number		
Emergency Telephone	Biogenix Environmental Health and Safety Departme	ent +1-901-320-5820
	2. HAZARDS IDENTIFICATION	
<u>Classification</u>		
OSHA Regulatory Status This chemical is considered hazardous	s by the 2012 OSHA Hazard Communication Standard	d (29 CFR 1910.1200)
Combustible dust		-
Label elements		
	Emergency Overview	
Warning		
May form combustible dust concentrat	ions in air	
The product contains no subs	stances which at their given concentration, are conside	ered to be hazardous to health
Appearance powder	Physical state Solid	Odor Slight

Other Information Unknown Acute Toxicity

1% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Magnesium stearate	557-04-0	>94	*
Water	7732-18-5	<4	*
Octadecanoic acid	57-11-4	<2	*

* The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES		
First aid measures		
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. (Get medical attention immediately if irritation persists.).	
Skin Contact	Wash skin with soap and water. (Get medical attention immediately if symptoms occur.).	
Inhalation	Remove to fresh air. (Get medical attention immediately if symptoms occur.).	
Ingestion	Clean mouth with water and drink afterwards plenty of water. (Get medical attention immediately if symptoms occur.).	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Avoid creating dust. Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous combustion productsCarbon dioxide (CO2). Carbon monoxide.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas. Avoid creating dust. Dust can form an explosive mixture with air.	
Environmental precautions		
Environmental precautions	See Section 12 for additional ecological information. The product is insoluble and floats on water. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.	
Methods and material for containme	ent and cleaning up	
Methods for cleaning up	Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust. Pick up and transfer to properly labeled containers.	
	7. HANDLING AND STORAGE	
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, including	ng any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	
Incompatible materials	Strong oxidizing agents.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Expo	sure Guidelines	Exposure limits ar	e listed below, if they exi	st.	
	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	PMC OEL
	Magnesium stearate 557-04-0	TWA: 10 mg/m ³ except stearates of toxic metals	-	-	-
	Octadecanoic acid 57-11-4	-	-	-	TWA: 10 mg/m ³
	Dust DUST	TWA: 10 mg/m ³ Inhl TWA: 3 mg/m ³ Resp	TWA: 5 mg/m ³ Resp TWA: 15 mg/m ³ Total 29CFR1910.1000	-	-

Appropriate engineering controls

Engineering Controls Showers, Eyewash stations, Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Avoid contact with skin, eyes or clothing. Avoid breathing (dust, vapor, mist, gas). Wash face, hands and any exposed skin thoroughly after handling. Use personal protective equipment as required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	Solid powder white	Odor Odor threshold	Slight No information available
<u>Property</u> pH Melting point/freezing point	<u>Values</u> No information available 145 °C / 293 °F	Remarks • Method	
Boiling point / boiling range Flash point Evaporation rate	 > 176 °C / 349 °F 176 °C / 349 °F No information available 	Decomposes Cleveland Open Cup	
Flammability (solid, gas) Flammability Limit in Air	No information available		
Upper flammability limit: Lower flammability limit: Vapor pressure	No information available No information available < 0.0000001 kPa @ 25 °C	negligible	
Vapor density Specific Gravity Water solubility	No information available No information available Insoluble in water		
Solubility in other solvents Partition coefficient Autoignition temperature	No information available No information available No information available		
Decomposition temperature Kinematic viscosity Dynamic viscosity	No information available No information available No information available		
Explosive properties Oxidizing properties	Dust can form an explosive mixture v No information available	vith air	
Other Information			
Softening point Molecular weight VOC Content (%) Density Bulk density Minimum ignition energy (MIE)	No information available 591.24 0 1.09 g/cm3 0.159 g/cm3 10 mJ		

10. STABILITY AND REACTIVITY

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Avoid creating dust. Dust can form an explosive mixture with air. Extremes of temperature and direct sunlight.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon dioxide (CO2), Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system. No known effect based on information supplied.
Eye contact	Dust contact with the eyes can lead to mechanical irritation.
Skin Contact	May cause irritation.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Magnesium stearate	> 10000 mg/kg (Rat)		> 2 mg/l (Rat)
Octadecanoic acid	> 4600 mg/kg (Rat)	>5000 mg/kg (Rabbit)	

Information on toxicological effects

Symptoms	No information available.		
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Sensitization	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.		
Reproductive toxicity	No information available.		
STOT - single exposure	No information available		
STOT - repeated exposure	No information available.		
Aspiration hazard	No information available.		
Numerical measures of toxicity - Product Information			
Unknown Acute Toxicity2.9% of the mixture consists of ingredient(s) of unknown toxicityThe following values are calculated based on chapter 3.1 of the GHS document.			
ATEmix (oral)	10627 mg/kg		

12. ECOLOGICAL INFORMATION

Ecotoxicity

1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
IATA Proper shipping name	Not regulated. Not regulated
IMDG_	Not regulated

15. REGULATORY INFORMATION

All of the components in the product are on the following Inventory lists

The classification and labeling information in this Safety Data Sheet should be viewed as provisional.

International Inventories

TSCA	Complies
AICS	Complies
DSL/NDSL	Complies
ENCS	Complies
KECL	Complies
PICCS	Complies
IECSC	Complies
NZIoC	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Any Substance regulated Title 40 of the Code of Federal Regulations, Part 372 is listed below, if it exists.

SARA 311/312 Hazard Categories

Acute health hazard

No

Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Any Substance regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) is listed below, if it exists.

CERCLA

Any Substance regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) is listed below, if it exists.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION					
NFPA_	Health hazards 1	Flammability 1	Instability 0	Physical and Chemical Properties -	
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection X	
Prepared By	PMC Group				
Issue Date	13-Jul-20)14			
Revision Date	29-May-2	2015			
Revision Note					
(M)SDS sections upd	ated 1				
Disclaimer					
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief					

The information provided in this Material 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 a 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.

End of Safety Data Sheet