



Section 1. Product and Company Identification

Product Name Magnesium Stearate
CAS Number 557-04-0

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
☎ (914) 654-6800 ☎ (914) 654-6899
🌐 parchem.com ✉ info@parchem.com

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Not classified as a hazardous or dangerous substance or mixture

GHS Label Elements

Pictograms: N/A

Signal word: N/A

Hazard and precautionary statements

None

Section 3. Composition / Information on Ingredients

Common Name Magnesium Stearate
Synonym(s) Octadecanoic acid, magnesium salt; Dibasic magnesium stearate; Stearic acid, magnesium salt
Formula $C_{36}H_{70}MgO_4$
CAS Number 557-04-0

COMPONENT	CAS NUMBER	CONCENTRATION
Magnesium Stearate	557-04-0	> 99% wt.

Section 4. First Aid Measures

Description of first-aid measures

Inhalation: If product dust causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight fitting clothing such as a collar, tie, belt, or waistband. If symptoms persist, seek medical attention immediately

Eyes: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do, after the first 5 minutes of rinsing and continue rinsing. If irritation persists seek medical attention, preferably from an



ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing and continue rinsing for at least 15 minutes. Wash contaminated clothing and shoes thoroughly before reuse. If irritation occurs or persists, seek medical attention.

Ingestion: Rinse mouth with water. Remove dentures if any. If conscious and alert, give victim 2 - 4 cups of milk or water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Obtain medical attention immediately if ingested.

Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Particulates may cause mechanical irritation of the eyes.

Skin: Not expected to be irritating to skin.

Inhalation: May cause irritation of the respiratory tract. Inhalation of a nuisance dust may cause coughing, sneezing and nasal irritation.

Ingestion: No hazard expected in normal industrial use.

Chronic: Prolonged and repeated inhalation of dust may cause a progressive chemical pneumonitis and pulmonary edema.

Indication of any immediate medical attention and special treatment needed

Advice to Doctor and Hospital Personnel: Treat symptomatically and supportively.

Section 5. Firefighting Measures

Extinguishable media

Suitable methods of extinction: Use extinguishing media best suited for surrounding fire.

Unsuitable methods of extinction: None known

Special hazards arising from the substance or mixture: Closed containers may explode due to the build-up of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Explosion hazards: Fine dust dispersed in air in sufficient concentrations create a potential dust explosion hazard.

Advice for firefighters: Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Avoid dust generation and accumulation. Do not inhale dust. Keep upwind of spill. Ventilate the area. Evacuate



non-essential personnel. Wear appropriate protective clothing designated in Section 8. Remove all sources of ignition.

Environmental precautions: Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers or waterways.

Methods and materials for containment and cleaning up: Cover drains and contain spill. Sweep up, vacuum or shovel up material and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Dispose of waste via a licensed waste disposal contractor.

Reference to other sections: See Section 13 for additional waste treatment information.

Section 7. Handling and Storage

Precautions for safe handling: Wear all appropriate personal protective equipment specified in Section 8. Do not get in eyes or on skin or clothing. Do not breathe dust. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Wash contaminated clothing and shoes before reuse.

Advice on protection against fire and explosion: Material creates a dust explosion hazard when sufficient dust concentrations are dispersed in air in the presence of ignition sources.

Conditions for safe storage, including any incompatibilities: Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10.5), food and drink. Transfer only to approved containers having correct labeling. Keep container tightly closed. Protect container against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids). Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

Section 8. Exposure Controls / Personal Protection

Control parameters

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
557-04-0	Magnesium Stearate		10 mg/m ³ TWA (except stearates of toxic metals) (listed under stearates)	

Exposure controls

Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1 for additional data.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.



Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with non-perforated side shields and a face shield. Refer to 29 CFR 1910.133, ANSI Z87.4 or Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of gloves must be greater than the intended use period.

Other protective equipment: Protective clothing. Protective boots, if the situation requires.

Respiratory Protection: Wear an approved filter type dust respirator when handling this product. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Fine white powder

Odor: Slight, fatty

Odor Threshold: No data available

Molecular Weight: 591.25

Chemical Formula: $C_{36}H_{70}MgO_4$

pH: Not determined

Freezing/Melting Point Range: 130 - 140°C (266 - 284°F)

Initial Boiling Point: Not determined

Evaporation Rate: Not applicable

Flammability (solid, gas): Not applicable

Flash Point: 250°C (482°F)

Auto-ignition Temperature: 690°C (1274°F)

Decomposition Temperature: Not determined

Lower Explosive Limit (LEL): 40 mg/m³

Upper Explosive Limit (UEL): Not applicable

Vapor Pressure: Not determined

Vapor Density: Not determined

Specific Gravity: 1.03

Viscosity: Not applicable

Solubility in Water: Insoluble

Partition Coefficient (n-Octanol/water): Not determined

Volatiles by Volume (70°F): 0%

Other data: No data available

Section 10. Stability and Reactivity

Reactivity: No special reactivity has been reported. Hazardous polymerization does not occur.

Chemical stability: This product is stable under recommended storage conditions, handling and use.

Possibility of hazardous reactions: None known

Conditions to avoid: Avoid dust generation, high temperatures and contact with incompatible materials.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Thermal decomposition products include oxides of carbon

Section 11. Toxicological Information

Information on toxicological effects

Acute Oral Toxicity

LD50, rat: >10 g/kg

Acute Inhalation toxicity: No data available

Acute dermal toxicity: No data available

Skin Irritation/corrosion: May cause skin irritation

Eye Irritation/corrosion: May cause eye irritation. May cause mechanical irritation.

Sensitization: No data available

Sensitization: No data available

Genotoxicity in vitro: No data available

Mutagenicity: No data available

Specific organ toxicity - single exposure: No data available

Specific organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Further information

This material is not listed as a carcinogen by IARC, ACGIH, NTP or OSHA. No data is available regarding the mutagenicity and/or teratogenicity of this material, nor is there available data that indicates that it causes adverse developmental and/or fertility effects in humans.

Handle in accordance with good industrial hygiene and safety practice.

Section 12. Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulation potential: No data available

Mobility In soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available.



Other adverse effects

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100- 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TOG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

NOT REGULATED FOR TRANSPORT
Not a marine pollutant

Section 15. Regulatory Information

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

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

OSHA Process Safety Management Standard: Chemicals in this product are not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: Chemicals in this product are not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is a registered Pesticide under the FIFRA, 40 CFR Part 150.

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product is not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA 313 Information: None of the chemicals in this product are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA Section 311/312 Hazard Categories: None

SARA 302/304 Extremely Hazardous Substance: None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains no CERCLA reportable substances.



Clean Air Act (CAA)

This product does not contain any substances that listed as Hazardous Air Pollutants (HAPs) designated in CM Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.

Other U.S. State Inventories: Magnesium Stearate (CAS #557-04-0) is not listed on any State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists.

Canada

WHMIS Hazard Symbol and Classification: None allocated

Canadian Controlled Products Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): None of the substances in this product are listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): None of the substances in this product are listed on the NPRI.

European Economic Community

Labeling (67/548/EEC to 1999/45/EC): None allocated

WGK, Germany (Water danger/protection): nwg

Chemical inventory Lists

Canada - Domestic Substance List (DSL): YES

Canada - Non-Domestic Substance List (NDSL): NO

Europe - Inventory of New and Existing Chemicals (EINECS): YES

United States - Toxic Substance Control Act (TSCA): YES

Australia - Australian Inventory of Chemical Substances (AiCS): YES

New Zealand - New Zealand Inventory of Chemicals (NZIoC): YES

China - Inventory of Existing Chemical Substances in China (IECSC): YES

Japan - Inventory of Existing and New Chemical Substances (ENCS): YES

Korea - Existing Chemicals List (ECL): YES

Philippines - Philippine Inventory of Chemicals and Chemical Substances (PICCS):
YES



*"Yes" indicates that all components of this product are in compliance with the inventory requirements administered by the governing country.

*"No" indicates that one or more components of this product are not on the inventory and are not exempt from listing.

Chemical safety assessment: For this product a chemical safety assessment was not carried out.

HMIS Rating

Health: 1

Flammability: 1

Reactivity: 0

Personal Protection: C

NFPA Rating

Health: 1

Flammability: 1

Instability: 0

Special Hazards:

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 8/7/2015

