

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: Magnesium Stearate

PRODUCT NAME: Magnesium Stearate

PRODUCT USE: Polymer Lubricant

**HB Chemical Corp., 140 E. Ascot Ln., Cuyahoga Falls, Ohio 44685
Tel: 330-920-8023**

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS #	EXPOSURE LIMIT	% By Wt.
Magnesium Stearate	557-04-0	Not Established	100

EEC 67/548: Information available upon request

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

White to yellow-white powder with fatty acid odor (See Section 9). Avoid repeated or prolonged inhalation and contact with skin and eyes. Avoid dust inhalation (See Section 3 below). Avoid contact with strong oxidizers and reducers, mineral acids, alkalis, organic acids and low molecular amines. Protect against decomposition products (See Section 5, 7, and 10). Avoid dust generation. May form explosive dust/air mixture.

HMIS RATING: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 PPE: E

POTENTIAL HEALTH EFFECTS

EYE: May cause eye irritation.

SKIN: Repeated or prolonged contact may cause skin irritation.

INGESTION: Low hazard in normal industrial use.

INHALATION: Repeat or prolonged dust or fume exposure may cause respiratory tract irritation, coughing, and difficulty breathing. Grossly excessive and chronic inhalation of dust may cause progressive chemical pneumonitis, cyanosis, and pulmonary edema.

CHRONIC EFFECTS: Not listed as a human carcinogen by OSHA, IARC, or NTP.

SIGNS AND SYMPTOMS: Eye, skin, or respiratory tract irritation.

4. FIRST AID MEASURES

EYES: Hold eye lid open; flush with large volume of water; continue for 15 minutes. If irritation develops, seek medical attention.

SKIN: Wash area with mild soap and water. If irritation develops, seek medical attention.

INGESTION: If swallowed, dilute with water, seek medical attention. Never give anything by mouth to an unconscious person.

INHALATION: If exposed to excessive levels of dust or fumes, remove to fresh air and seek medical attention.

NOTE TO PHYSICIANS: Treat symptomatically (See Section 3 for observable SIGNS/SYMPTOMS).

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Flash Point: >200°C Method: C.O.C. method Burn Rate: Unknown

FLAMMABLE LIMITS: 30 g/m³ for particles < 74 microns

FLAMMABILITY CLASSIFICATION: Dust may form explosive mixtures with air. Dust cloud ignition temperature 400°C

AUTOIGNITION TEMPERATURE: Not established

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon and magnesium

EXTINGUISHING MEDIA: Water spray, alcohol foam, dry chemical, carbon dioxide

ADDITIONAL CONSIDERATIONS: Combustible dust. Water or foam may cause frothing. Melted fatty acid can cause grease type fire.

FIRE FIGHTING INSTRUCTIONS: Protect against decomposition products, wear self contained breathing apparatus. If this material is involved in a fire, keep surrounding containers cool with water spray and contain all runoff.

NFPA 704M RATING: **HEALTH:** 0 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **SPECIAL:** -

6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Prevent dust generation and static discharge. Use non-sparking tools. Wear protective equipment (See Section 8); stop leak at source; dike area; prevent material from entering waterway; prevent contact with strong oxidizers and reducers (See Section 7); pump or shovel material to reclaim container; use absorbent on remaining material; and shovel into disposal container.

7. HANDLING AND STORAGE

HANDLING: Do not wear contaminated clothing. Wash prior to eating, drinking, smoking, or use of restroom and when leaving work. Heating of non-vented container may cause container to rupture. Do not dispose of material or empty container to the environment. Protect against static discharge. Ground all equipment. Avoid dust generation. Empty only into inert or non-flammable atmosphere. Presence of flammable vapors can cause a flash fire or explosion due to electrostatic discharge.

STORAGE: Do not store near heat or open flame. Keep in cool, dry, well ventilated area.

INCOMPATIBLE MATERIALS: Strong oxidizers and reducers, mineral acids, alkalies, organic acids and low molecular weight amines which can decompose calcium stearate.

VENTILATION: Local exhaust, unless heating to vapor or mist. Avoid dust generation and accumulation.

SPECIAL PACKAGING MATERIALS: Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical if heated to fumes; facility should be equipped with safety shower and eye wash in area. Avoid dust generation and static discharge.

EYE/FACE PROTECTION: Safety glasses

SKIN PROTECTION: Impervious gloves, long sleeve shirt and trousers

RESPIRATORY PROTECTION: Dust mask

EXPOSURE GUIDELINES:	See Section 2	PEL/TWA	TLV/TWA
	Total dust	Mg/m ³	mg/m ³
			10

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White

ODOR: Fatty acid

PHYSICAL STATE: Powder

pH: 7.6-9 (20°C solution in water)

VAPOR PRESSURE: Not determined

VAPOR DENSITY: Not determined

BOILING POINT: Decomposes

MELTING POINT: 130 - 160° C

SOLUBILITY IN WATER: Insoluble in water, alcohol, and ether. Soluble in hot: turpentine, benzene, toluene, xylenes, carbon tetrachloride, vegetable oils, oleic acids, mineral oils and hot pyridine.

SPECIFIC GRAVITY: 1.03

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal ambient and anticipated storage and handling conditions

CONDITIONS TO AVOID: Avoid heating to decomposition

INCOMPATIBILITY: Strong oxidizers and reducers, mineral acids, alkalies, organic acids and low molecular weight amines which can decompose calcium stearate.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and calcium

HAZARDOUS POLYMERIZATION: Not known to occur

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: No data

SKIN EFFECTS: No data

INGESTION EFFECTS: Rat: Acute Oral; LD50; >10g/kg

INHALATION EFFECTS: No data

SUBCHRONIC EFFECTS: No data

CHRONIC EFFECTS/CARCINOGENICITY: Not listed as a human carcinogen by OSHA, IARC, or NTP.

EPIDEMIOLOGY: No data

TERATOLOGY: No data

REPRODUCTIVE EFFECTS: No data

NEUROTOXICITY: No data

MUTAGENICITY: No data

SYNERGISTIC PRODUCTS: No data

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data

ENVIRONMENTAL FATE: No data

PHYSICAL/CHEMICAL: (See Section 9 and 10)

13. DISPOSAL CONSIDERATIONS

Because product uses, mixtures, processes, or contamination may render this material hazardous, it is the responsibility of the user/owner of the product to determine at the time of disposal, whether the product meets RCRA criteria for a hazardous waste. Dispose of this material and the empty containers, liners and rinsate according to current local, state, and federal regulations.

14. TRANSPORTATION INFORMATION (Not meant to be all inclusive)

DOT SHIPPING NAME: Material as sold is not a DOT Hazardous Material.

DOT HAZARD CLASS/DESCRIPTION: Not applicable

DOT LABEL: Not applicable

DOT PLACARD: Not applicable

DOT UN/NA NUMBER: Not applicable

DOT PRODUCT RQ: Not applicable

IMO CLASSIFICATION: Not applicable

EEC CLASSIFICATION: Not applicable

EEC LABEL: Not applicable

EEC R: Not applicable

EEC S: S33

TRANSPORT CANADA PIN: Not applicable

15. REGULATORY INFORMATION (Not meant to be all inclusive)

U.S. FEDERAL REGULATIONS

TSCA: Appears in TSCA Inventory

OSHA: See Section 5 for dust/air information

CERCLA SARA HAZARD CATEGORY:

SECTION 311 AND 312: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: fire

SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: None

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): Appears in the Domestic Substance List

EINECS: Appears in EINECS

STATE REGULATIONS: Specific state information available upon request.

16. OTHER INFORMATION

MSDS Status: Revised, October 18, 2007

The information herein is given in good faith, but no warranty, expressed or implied, is made.