

# MATERIAL SAFETY DATA SHEET

## THE HALLSTAR COMPANY

### Section 1 - Identification of Substance and Company

**Product Name:** MAGLITE® D-SSF

**Product Code:** 2954

**Chemical Name:** Magnesium Oxide

**Supplier:** The HallStar Company <sup>(1)</sup>  
120 S. Riverside Plaza  
Suite 1620  
Chicago, IL 60606 USA  
PH: (877) 427-4255

**HMIS**  
Health: 1  
Flammability: 0  
Reactivity: 1  
Glasses, Gloves, Dust Mask

**Emergency Phone Numbers:** The HallStar Company (708) 594 - 5999  
CHEMTREC: (800) 424 - 9300

### Section 2 - Information on Ingredients

<u>Chemical Name:</u>	<u>CAS #</u>	<u>% By Weight</u>
Magnesium Oxide	1309-48-4	100

### Section 3 - Hazard Identification

**Appearance and Odor:** White odorless powder.

**Summary of Risks:** Magnesium oxide presents a very low health risk in most applications. Some literature cites magnesium oxide as an experimental tumorigen. Inhalation of the fume (such as produced in a high temperature arc) can produce a febrile reaction and leukocytosis in humans. Dust generated from the product is classified as a nuisance dust.

**Medical Conditions Which May Be Aggravated by Contact:**

Pre-existing chronic lung conditions such as, but not limited to, bronchitis, emphysema, and asthma.

**Target Organs:** Lungs

**Primary Entry Route(s):** Inhalation

**Acute Effects:** Excessive dust (above the TLV) can cause transitory upper respiratory physical irritation.

**Chronic Effect(s):** Excessive inhalation (above TLV) of mineral dust, over long periods of time, may cause industrial bronchitis, reduce breathing capacity, and lead to increased susceptibility to other lung disease.

**Signs & Symptoms of Overexposure:**

**Eye Contact:** Physical irritation.

**Skin Contact:** Possible irritation from prolonged contact to individuals sensitive to mineral dust.

**Inhalation:** Upper respiratory irritation.

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#### **Section 4 - First Aid Measures**

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**Skin Contact:** Wash exposed areas with soap and water. Get medical advice if irritation develops.

**Ingestion:** If large amounts are swallowed, give water to drink and get medical advice.

**Inhalation:** Remove to fresh air. Get medical attention for any breathing difficulty.

#### **Section 5 - Explosion and Fire-Fighting Measures**

**Flash Point (Method Used):** Not flammable

**Extinguishing Media:** This product is non-combustible. Use extinguishing media that will put out the surrounding fire. Water reacts with magnesium oxide and is not recommended as an extinguishing agent for fires that involve it. If water must be used, prevent it from coming into contact with the product. If such contact is unavoidable, apply copious amounts of water to safely absorb the heat that will be generated.

**Special Fire-Fighting Procedures:** Do not allow water to get inside containers; reaction with water will cause product to swell, generate heat, and burst its container.

#### **Section 6 - Accidental Release/Spill Procedures**

**Steps to be Taken in Case Material is Released or Spilled:** Sweep up spilled material and repackage. Dispose of in accordance with local, state and federal regulations.

#### **Section 7 - Storage and Handling**

Keep in a tightly-closed container. Store in cool, dry & ventilated area. Protect against physical damage.

#### **Section 8 - Personal Protection**

**Threshold Limit Value (TLV):** **ACGIH:** 8M TWA, Total Dust = 10mg/m<sup>3</sup>, Respirable Dust = 5mg/m<sup>3</sup>  
**OSHA :** PEL, Total Dust = 15 mg/m<sup>3</sup>

**Protective Gloves:** Rubber gloves

**Eye Protection:** Safety goggles

**Respiratory Protection:** A dust mask is recommended when dust is a nuisance. If exposure above the TWA or PEL, a NIOSH approved respirator with particulate filters is needed.

**Ventilation:**

**Local Exhaust:** Recommended

**Mechanical (General):** Recommended

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### Section 9 - Physical and Chemical Properties

<b>Boiling Point (F°):</b>	Solid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	approx. 3.5
<b>Vapor Pressure (mm-Hg):</b>	Solid	<b>Percent Volatile</b>	
<b>Vapor Density (air=1):</b>	Solid	<b>by Volume (%):</b>	Nil
<b>Solubility in Water:</b>	Insoluble	<b>pH Aq. Slurry approx.:</b>	approx. 11
<b>Melting Point:</b>	approx. 2800°C		
<b>Appearance and Odor:</b>	White odorless powder		

### Section 10 - Stability and Reactivity

**Stability:** Stable under all normal conditions of dry storage. Exposed, unprotected, magnesium oxide will absorb moisture and carbon dioxide from the air. Water will react with the product generating heat and steam. Hazardous polymerization will not occur.

**Incompatibilities:** Acids. Magnesium oxide is soluble in aqueous acids; violent reaction or ignition with interhalogens (e.g., bromine pentafluoride; chlorine trifluoride). Incandescent reaction with phosphorous pentachloride.

**Hazardous Decomposition Products:** Heat and steam, whenever product reacts with water or aqueous acids.

### Section 11 - Toxicological Information

**Acute Toxicity:** Oral LD<sub>50</sub> (rats): >5000 mg/kg

### Section 12 - Ecological Information

No information is available at this time.

### Section 13 - Disposal Considerations

**Waste Disposal Method:** Follow all applicable local, state, and federal regulations for disposal. Contacting a waste disposal company is recommended.

### Section 14 - Transport Information

Not classified as hazardous according to the Department of Transportation.

### Section 15 - Regulatory Information

**Toxic Substances Control Act (TSCA):** This product is listed on the TSCA Inventory of the United States.

**Domestic Substance List (DSL):** This product is listed on the DSL Inventory of Canada.

**Australian Inventory of Chemical Substances (AICS):** This product is listed on the AICS Inventory of Australia.

**European Inventory of Existing Chemical Substances (EINECS):** This product or its monomers are listed on the EINECS Inventory of Europe.

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### **Section 15 - Regulatory Information (cont)**

**Korean Existing Chemicals List (ECL):** This product is listed on the ECL Inventory of Korea.

**Japanese Inventory of Existing & New Chemical Substances (ENCS):** This product is listed on the ENCS Inventory of Japan.

### **Section 16 - Other Information**

Prepared By: AAC

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All information is presented in good faith using available information. The HallStar Company makes no representation of the accuracy or completeness of the information. The user should consider this information as a supplement to other information that may be available. User should also determine suitability of information in their situation to determine proper use and disposal, protection of persons and the environment.

<sup>(1)</sup> Affiliated companies include RTD\*HallStar Company, HallStar Solutions Corp., Ester Solutions Company, Memphis Solutions Company and Marine Magnesium & Minerals Company.