

**AERCHEM INC.**  
**320 North Walnut**  
**Bloomington, IN 47404**

Telephone: 812.334.9996

Fax: 812.334.1960

Emergency: 800.424.9300

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**Effective Date:** 06/07/94

**Product Name:** Magnesium Stearate NF

**Chemical Formula:** Mg(C<sub>18</sub>H<sub>35</sub>O<sub>2</sub>)<sub>2</sub>

**CAS No.:** 557-04-0

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**Hazardous Ingredients:** This exact product composition depends on purity of the tallow used.

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**Physical Data:**

Melting point (range) Approx.:	145 °C
Boiling point:	N/A
Decomposition temperature:	N/A
pH (depends on quality):	7.0-7.4
Solubility in water:	insoluble
Odor:	faint
Physical form at 20 C:	White powder
Vapor pressure:	N/A
Tap density:	0.3 g/ml

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**Fire and Explosion Information:**

Flash point:	> 150 °C
(Auto) ignition temperature:	> 150 °C
Extinguishing media to be recommended:	Water (mist), CO <sub>2</sub> , Dry powder
to be avoided:	CO <sub>2</sub> in closed rooms and water jets.
Special fire and explosions precautions:	Avoid dust concentration.
Fire and explosions hazards:	Dust-air mixtures could cause explosions.

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**Reactivity Data:**      Stable   X                        Unstable \_\_\_\_\_

**Hazardous Decomposition:** Burning may produce carbon monoxide and magnesium oxide.

**Hazardous Polymerization:** Will not occur

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**Incompatibilities:** Acids which break up the salts.

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**Handling and Storage Information:**

Keep in a tightly closed container, store in a cool, dry, ventilated area. Protect from physical damage. Separate from incompatibilities.

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**Leak/Spill Information:**

Remove all sources of ignition. Ventilate area of leak or spill. Clean-up personnel may require protection from inhalation of dust.

Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools. Pick up spill for recovery or disposal and place in a closed container.

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**Disposal Information:**

Whatever cannot be saved for recovery may be burned in an approved incinerator or disposed in an approved waste facility. Ensure compliance with local, state and federal regulations.

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**Health Hazard Information:**

**A. Exposure/Health Effects**

**Inhalation:** Symptoms from excessive inhalation of dust may include coughing and difficult breathing.

**Ingestion:** Low level of toxicity by ingestion.

**Skin Contact:** No information found. Not expected to be a hazard.

**Eye contact:** May cause mechanical irritation.

**Chronic Exposures:** Grossly excessive inhalation of the dust may cause a progressive chemical pneumonitis.

**Aggravation of pre-existing conditions:** Persons with pre-existing skin disorders, impaired respiratory function, or a history of pulmonary disease should not be exposed to dusts.

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**B. First Aid:**

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

**Ingestion:** Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

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

**Eye Contact:** Wash thoroughly with running water. Get medical advice if irritation develops.

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**C. Toxicity Data**

No LD50/LC50 information found relating to normal routes of occupational exposure.

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**Occupational Control Measures:**

**Airborne Exposure Limits:** --ACGIH Threshold Limit Value (TLV): 10 mg/m<sup>3</sup> of total dust.

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices" most recent edition, for details.

**Personal Respirators: (NIOSH approved):** If the TLV is exceeded, a dust/mist respirator may be worn up to Ten times the TLV. Consult respirator supplier for details.

**Skin protection:** Gloves and lab coat, apron or coveralls.

**Eye Protection:** Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash foundation and quick-drench facilities in work area. Avoid dust dispersal.

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