

# Material Safety Data Sheet of "MAGLUX ST2"

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## 1. Product Identification

**Product name:** "Maglux ST2"

Stearic Acid coated micronized mineral "Brucite".

The principal ingredient of this mineral is a magnesium hydroxide.

Main content: Magnesium Hydroxide about 95%

Other content: Stearic Acid about 2%

**CAS No.:** 1309-42-8 (Magnesium Hydroxide)

**Molecular Weight:** 58.32 (Magnesium Hydroxide)

**Chemical Formula:** Mg(OH)<sub>2</sub>

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## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Magnesium Hydroxide	1309-42-8	appr. 95%	Yes
Stearic Acid	57-11-4	appr. 2%	Yes

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## 3. Hazards Identification

### Emergency Overview

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**CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.**

**SAF-T-DATA<sup>(tm)</sup>** Ratings (Provided here for your convenience)

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Health Rating: 2 - Moderate

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

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## Potential Health Effects

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### **Inhalation:**

May cause irritation to the respiratory tract. Symptoms may include coughing, sore throat, labored breathing, and chest pain.

### **Ingestion:**

May cause irritation to digestive tract. Excessive amounts of magnesium can cause CNS depression and respiratory paralysis which can be fatal.

### **Skin Contact:**

May cause irritation with redness and pain.

### **Eye Contact:**

May cause irritation, redness and pain.

### **Chronic Exposure:**

No information found.

### **Aggravation of Pre-existing Conditions:**

Persons with impaired kidney function may be more susceptible to the effects of the substance.

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## 4. First Aid Measures

### **Inhalation:**

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

### **Ingestion:**

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

### **Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes. Call a physician if irritation develops.

### **Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.

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## 5. Fire Fighting Measures

### **Fire:**

Not considered to be a fire hazard.

### **Explosion:**

Not considered to be an explosion hazard.

### **Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire.

### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved

self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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## 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

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## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

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## 8. Exposure Controls/Personal Protection

### **Airborne Exposure Limits:**

None established.

### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. 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):**

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear protective gloves and clean body-covering clothing.

### **Eye Protection:**

Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

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## 9. Physical and Chemical Properties

**Appearance:**

White powder.

**Odor:**

Odorless.

**Solubility:**

Practically insoluble in water.

**Specific Gravity:** 2.36**pH:** 9.5-10.5 Aqueous slurry.**% Volatiles by volume @ 21C (70F):** 0**Boiling Point:**

Not applicable.

**Melting Point:**

ca. 350C (ca. 662F) Decomposes.

**Vapor Density (Air=1):**

No information found.

**Vapor Pressure (mm Hg):**

No information found.

**Evaporation Rate (BuAc=1):**

No information found.

## 10. Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

No hazardous decomposition products.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Acids, maleic anhydride, phosphorous and potassium.

**Conditions to Avoid:**

Incompatibles.

## 11. Toxicological Information

Oral rat LD50: 8500 mg/kg. (Magnesium Hydroxide)

Ingredient Category	---NTP Carcinogen---		
	Known	Anticipated	IARC
Magnesium Hydroxide (1309-42-8)	No	No	None

Stearic Acid (57-11-4) No No None

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## 12. Ecological Information

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

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## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## 14. Transport Information

Not regulated.

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## 15. Regulatory Information

-----¥Chemical Inventory Status-Part1¥-----

Ingredient	TSCA	EC	Japan	Australia
Magnesium Hydroxide (1309-42-8)	Yes	Yes	Yes	Yes
Stearic Acid(57-11-4)	Yes	Yes	Yes	Yes

-----¥Chemical Inventory Status - Part 2¥-----

Ingredient	--Canada--			
	Korea	DSL	NDSL	Phil.
Magnesium Hydroxide (1309-42-8)	Yes	Yes	No	Yes
Stearic Acid(57-11-4)	Yes	Yes	No	Yes

-----¥Federal, State & International Regulations - Part 1¥-----

Ingredient	-SARA 302-		-----SARA313-----	
	RQ	TPQ	List	Chemical Catg.
Magnesium Hydroxide (1309-42-8)	No	No	No	No

Stearic Acid(57-11-4) No No No No

-----Federal, State & International Regulations - Part 2-----

Ingredient	-RCRA-		-TSCA-
	CERCLA	261.33	8(d)
Magesium Hydroxide (1309-42-8)	No	No	No
Stearic Acid(57-11-4)	No	No	No

Magesium Hydroxide

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No  
Reactivity: No (Pure / Solid)

Stearic Acid

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No  
Reactivity: No (Pure / Solid)

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**NFPA Ratings:** Health: 1 Flammability: 0 Reactivity: 0

**Label Hazard Warning:**

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

**Label Precautions:**

- Avoid contact with eyes, skin and clothing.
- Wash thoroughly after handling.
- Avoid breathing dust.
- Keep container closed.
- Use with adequate ventilation.

**Label First Aid:**

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

**Disclaimer:**

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