



Safety Data Sheet (SDS)

Revision / Review Date: 5/22/2015

1. Chemical Product and Company Identification

Product Name:	STARMAG U, 150, 50, 20 and P
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
MSDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Magnesium Oxide
CAS No.:	1309-48-4
OSHA Status	Not Hazardous

For emergency health, safety, and environmental information, calls 330-920-8023

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

GHS Classification

Physical Hazards: Not classified, not applicable or Classification not possible.

Health Hazards:

Acute toxicology (oral): Not Classified
Dermal corrosion/irritation: Classification 3B
Serious eye damages/irritation: Classification 2B
Germ cell mutagenicity: Not classified
Other elements are: Classification not possible or Not applicable.

Environmental Hazards:

Classification not possible.

Signal Word:

Warning.

Hazard Statement:

Causes mild skin irritation.
Causes eye irritation.

3. Composition / Information on Ingredients

<u>Substance/Preparation:</u>	Substance
<u>Chemical Formula:</u>	MgO
<u>CAS Number:</u>	1309-48-4

<u>Synonyms:</u>	MAGNESIA; MAGNESIUM MONOXIDE; CALCINED MAGNESIA
<u>Composition:</u>	Magnesium Oxide 100%

4. First Aid Measures

<u>Inhalation:</u>	Gargle. Remove from exposure area to fresh air immediately. Perform artificial respiration if necessary. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.
<u>Eyes:</u>	Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.
<u>Skin:</u>	Remove contaminated clothing and shoes immediately. Wash with large amounts of water until no evidence of chemical remains (at least 15-20 minutes).
<u>Ingestion:</u>	If vomiting occurs, keep head lower than hips to help prevent aspiration. Treat symptomatically and supportively. Get medical attention if needed.

5. Fire-Fighting Measures

<u>Suitable Extinguishing Media:</u>	Water Spray, Dry Chemical, Carbon Dioxide CO ₂ , Foam
<u>Special Fire Fighting Procedures:</u>	No acute hazard (flammable). Move container from fire avoid from fire spread, because it has an unpleasant smell of packaging. Avoid breathing vapors or dusts; keep upwind.
<u>Hazardous Combustion Products:</u>	May produce carbon monoxide, according to condition.
<u>Unusual fire and explosion hazards:</u>	No acute hazard (Inflammable).

6. Accidental Release Measures

<u>Point to notice for Public Health:</u>	Ventilate it enough until processing ends for the room.
<u>Steps to be taken in case material is Spilled:</u>	Sweep, collect and dispose the dust. Wear a dust mask, Rubber glove, apron, and boot, etc. when working. Watering is effective.
<u>Environmental Disposal Information:</u>	Note that dust doesn't disperse.
<u>Waste Disposal:</u>	Reclaim or dispose of in accordance with local, state, and federal regulations .

7. Handling and Storage:

Handling:

Set up the local exhaust ventilation and the collection dust equipment or handle in a place where ventilation is good. Set up the equipment to wash eyes and to wash the body near the handling place in case of emergency. Prevent dust from dispersing when working. Work from the windward about work in outdoor. Wash hands and face etc. well after handling.

Storage:

Avoid water and moisture, and keep in an indoor warehouse. Seal up the remainder of product after a package is opened in a plastic bag.

8. Exposure Controls / Personal Protection

Exposure Controls:

3 mg/m³(inhalable dust), 10 mg/m³ (total dust) ACGIN (2004) TWA.

Respiratory Protection:

Employee must wear appropriate dust-respirator to prevent inhale with this substance.

Ventilation:

Provide local exhaust ventilation system to meet published exposure limits.

Protective Gloves:

Employee must wear appropriate protective gloves to prevent contact with this substance.

Eye Protection:

Employee must wear splash proof or dust resistant safely goggles to prevent eye contact with this substance.

Skin and Body Protection:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Other Precautions:

Wash with soap and water before eating, drinking or using toilet facilities. Launder contaminated clothing before reuse.

Decontamination Facilities:

Eye bath, washing facilities (sinks / showers)

9. Physical and Chemical Properties

DESCRIPTION/COLOR:

Fine White powder.

ODOR:

None.

pH:

about 10.4 (4% slurry)

MELTING POINT:

2800 C

BOILING POINT:

3600 C

SPECIFIC GRAVITY:

3.65

WATER SOLUBILITY:

0.0006% (water)

10. Stability and Reactivity

<u>Stability:</u>	There is a hygroscopicity (water permeability). It changes to Magnesium hydroxide. Carbon dioxide and moisture in the air are absorbed and it changes to a magnesium carbonate.
<u>Possibility of hazardous reactions:</u>	Will not occur.

11. Toxicological Information

ACCUTE EFFECTS

<u>- Oral LD50:</u>	Over 5000mg/kg (female mouse)
<u>Dermal Corrosion/Irritation:</u>	May cause irritation, if contact is for a long time. Causes mild skin irritation "Classification 3"
<u>Serious Eye Damage/Irritation:</u>	May cause irritation. Causes eye irritation "Classification 2B"
<u>Respiratory sensitization:</u>	No data available.
<u>Skin sensitization:</u>	No data available.
<u>Germ cell mutagenicity:</u>	Negative.
<u>Carcinogenicity:</u>	No data available.
<u>Reproductive Toxicity :</u>	No data available.
<u>STOST-Single exposure:</u>	No data available.
<u>STOST-Repeated exposure:</u>	No data available.
<u>Aspiration hazard if inhaled:</u>	No data available.
<u>Others:</u>	No data available

12. Ecological Information

This material has not been evaluated for environmental effects.

13. Disposal Considerations

Reclaim or Dispose of material in accordance with all applicable local, state, and federal regulations.

14. Transport Information

<u>D.O.T. Shipping Name</u>	Not regulated.
<u>Air - ICAO (international Civil Aviation Organization)</u>	Not regulated
<u>Sea - IMDG (International Maritime Dangerous Goods)</u>	Not regulated

15. Regulatory Information

Chemical Inventory Status

TSCA	
EU(EINECS)	Y
Japan(ENCS)	
Australia(AICS)	
Korea(ECL)	Y
Canada(DSL)	Y
Canada(NDSL)	N
Philippine(PICCS)	Y

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.