MATERIAL SAFETY DATA SHEET

1) Product Information:

Product Name : Magnesium Powder (Granules)
Chemical Symbol : Mg
CAS No. : 7439-95-4

2) Information On Ingredients

Name of Material: Magnesium
Material Content: 99.5% min

3) Physical And Chemical Properties

Physical state : Powder
Appearance : Sliver Grey
Odor : Odorless
P. H. : NA
Melting Temp : 6509C
Flash Point : NA
Auto flammability : Product is not self igniting
Solubility : Insoluble in water

4) Hazards Identification

Human Health
Eye : May cause eye irritations
Skin : May cause irritation.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting & diarrhea.

Environment: Toxic for aquatic organisms.

Physical: If suspended in air (dust cloud), fine powder can be ignited in the presence of an ignition source.

Chemical: Prolonged contact with water may result in reaction releasing flammable hydrogen gas - Fire and Explosion Risk. Will react with oxidizing agents, causing heat and hydrogen release – Fire and Explosion Risk. Magnesium fire forms dense white smoke and very bright flame.

5) First Aid Measures

Inhalation: Harmful

Skin Contact: Wash off with plenty of water - Remove the contaminated clothing.

Eye Contact: Rinse eye with running water. Obtain medical attention if symptoms persist.

Ingestion: Rinse out mouth and then drink copious amount of water. Do not induce vomiting. Obtain medical attention.

6) Fire Fighting Measures

Suitable Extinguishing Agents
  - Use self-contained breathing apparatus.
  - Use dry sand or approved class D extinguishing agents.

Unsuitable Extinguishing Agents
  - Do not use water or carbon dioxide (CO2).
  - Do not use Dry Powder or Foam.

Special hazards caused by the substance, its products of combustion or resulting gases
  - Dust can combine with air to form an explosive mixture. Contact with water releases flammable gas (hydrogen).
7) Accidental Release Measures

Personal Precautions
- Avoid generation of dust clouds.
- Keep away ignition sources

Environmental protection
- Do not allow product to enter sewage system or water courses (possible reaction releasing hydrogen).

Measures for cleaning/ Collection spillages
- Clean the material using non-sparking tools: (e.g. Natural fiber broom)
- Do not flush with water.

8) Handling And Storage

Handling
- Keep away from source of ignition.
- Protect against static electricity.
- Use non sparking tools.
- Avoid accidental contact with reactive materials - acids or chemicals - oxidizers etc.

Storage
- Store in cool, dry place
- Store in tightly closed container and water free area
- Keep area clean and avoid spillage
- Do not store with reactive materials.

9) Exposure Controls/Personal Protection

- A suitable face mask is recommended if regular exposure is unavoidable. Irritation may occur as with any dust entering the eye - wash out immediately. Wash off the skin with plenty of water - Remove the contaminated clothing.
10) Stability And Reactivity

Stability
- Stable when dry. No decomposition

Reactivity
- May react with acids or oxidizing agents.
- Prolonged contact with water can cause a reaction releasing hydrogen gas.

11) Toxicological Information

Acute Toxicity
- No data available

Chronic Toxicity
- May cause irritation to the respiratory tract and eyes. May result poor wound healing tendency after penetration to the skin

12) Ecological Information

Mobility/ Degradability
- Will convert to Magnesium Oxide during prolonged contact with water.

Eco-toxicity
- Magnesium powder is toxic for aquatic organisms.
- Generally not hazardous to water

13) Disposal Considerations

Dispose of in line with regional or national regulations. Avoid product entering watercourses/sewer systems
14) Transport Information

Pack in Air tight sealed containers
Transport over land ADR/RID class 4.3 with 4.2

15) Regulatory Information

Label : UN classification - 4.3 Dangerous when wet
Risk : Contact with water liberates extremely flammable gas
Safety : Keep container tightly closed and dry.
        In case of fire, use sand - Never use water.

16) Other Information

Last Updated : 05/21/2016

The information above is believed to be accurate and represents the best information currently available to us. However, we Make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume No liability resulting from its use. Users should make their own investigations to determine the suitability of the information for Their particular purposes. In no event shall sciencelab.com be liable for any claims, losses, or damages of any third party or for Lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if magnesiumworld.com has been advised of the possibility of such damages.