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MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description MAGNESIUM-24 METAL (24MG)

Cambridge Isotope Laboratories, Inc. 50 Frontage Rd ANDOVER, MA 01810 USA

E-mail cilsales@isotope.com Web Site www.isotope.com

Phone Numbers

Emergency Contact Chemtrec

Emergency Phone 1-800-424-9300 (24 hours)

Customer Service

1-800-322-1174 (8:30-5:30 EST)

Phone

Transportation 1-202-483-7616 (24 hours)

2 HAZARDS IDENTIFICATION

OSHA Hazards

Flammable solid, Target Organ Effect

Target Organs

Central nervous system, Kidney, Cardiovascular system

GHS Classification

Self-heating substances and mixtures (Category 1)

Substances and mixtures, which in contact with water, emit flammable gases (Category 1)

GHS Label Information

Signal Word Danger

Hazards Identification

Flame

Hazard Statement(s)

Self-heating; may catch fire.

In contact with water releases flammable gases which may ignite spontaneously.

Precautionary Statement(s)



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Keep away from contact with water, possibility of violent reaction/flash fire.

Handle under inert gas. Protect from moisture.

Keep cool. Protect from sunlight.

In case of fire: Use ... for extinction.

Store contents under ...

HMIS Ratings

Chronic Health Physical 2 Flammability 0 2 Health

NFPA Codes

Fire 0 Health 2 2 Reactivity

Potential Health Effects

Eyes May cause eye irritation. Ingestion May be harmful if swallowed.

May be harmful if inhaled. May cause respiratory tract irritation. Inhalation Skin May be harmful if absorbed through skin. May cause skin irritation.

3 **COMPOSITION / INFORMATION ON INGREDIENTS**

Composition / Information on Ingredients

Chemical Formula Mg Molecular Weight 24.0

7439-95-4 (unlabeled) CAS No.

231-104-6 EC No. 012-001-00-3 Index No.

FIRST AID MEASURES

First Aid Measures

Eyes Flush eyes with water as a precaution.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a Ingestion

physician.

Inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.



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Skin Wash with soap and plenty of water. Consult a physician.

Additional Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

Information dangerous area.

5 FIRE FIGHTING MEASURE

Fire Fighting Measures

Extinguishing Media In case of fire use Carbon dioxide CO2 Dry powder. NEVER use water.

Fire Fighting Equipment

Wear self contained breathing apparatus for fire fighting if necessary.

6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

Personal Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate

Precautions personnel to safe areas.

Environmental Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Precautions

Methods and Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Do not flush with water. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Precautions for Safe Handling

cleanup

Handling Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources

of ignition - No smoking.

Conditions for Safe Storage

Storage Store at room temperature away from light and moisture.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protecton



Eyes - Face Wear safety glasses with side shields (or goggles) and a face shield.

Skin Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type

of protective equipment must be selected according to the concentration and amount of the

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

dangerous substance at the specific workplace.

Respiratory When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing Wear suitable protective clothing and gloves.

Practices and at the end of workday.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form Chips

Work Hygienic

pH No data available

Melting Point 648 °C (1,198 °F) - lit

Boiling Point 1,090 °C (1,994 °F) - lit

Flashpoint No data available

Lower Explosion No data available

Limit

Upper Explosion No data available

Limit

Vapor Pressure 1 hPa (1 mmHg) at 621 °C (1,150 °F)

Solubility in Water No data available Auto Ignition 510 °C (950 °F)

Temperature

10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability Stable if stored under recommended conditions.

Possibility of Hazardous Reactions Reacts violently with water.

Conditions to Avoid Expos

Exposure to moisture.

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Hazardous decomposition products

Formed under fire conditions: Magnesium oxide

Materials to avoid Strong oxidizing agents, acids, Acid chlorides, Halogens

11 **TOXICOLOGICAL INFORMATION**

Acute Toxicity

LC50 Inhilation Rat

Serious

No data available

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation

Inhalation No data available

Respiratory or Skin

Sensitization

Not available

Germ Cell

Not available

Mutagenicity

IARC

No component of the product present at levels greater than or equal to 0.1 % is identifiable as

probable, possible, or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identifiable as a

carcinogen or potential carcinogen by ACGIH.

NTP No component of this product present at levels greater than or equal to 0.1 % is identified as a

known or anticipated carcinogen by NTP.

OSHA No component of this product present at levels greater than or equal to 0.1 % is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive

Toxicity

Not available

Specific Target Organ Toxicity

Single Exposure No data available Repeated Exposure No data available

Other Information

RTECS OM2100000



12 ECOLOGICAL INFORMATION

Toxicity

Persistance and Degradability Not available

Bioaccumulative

Potential

Not available

Mobility in Soil

Not available

PBT and vPvB

Assessment

Not available

Other Adverse

Effects

Not available

13 DISPOSAL CONSIDERATIONS

Disposal Considerations

Product Disposal Waste materials should be disposed of under conditions which meet Federal, State, and Local

environmental control regulations.

14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

UN Number 1869

Prop. Ship. Name Magnesium

Hazard Class 4.1
Packing Group III
Marine Pollutant No
Poison Inhalation No

Hazard

15 REGULATORY INFORMATION

Regulatory Information

Flammable solid, Target Organ Effect



SARA

Sara 302 No chemicals in this material are subject to the reporting requirements.

Component

Sara 313 No chemicals in this material are subject to the reporting requirements.

Component

SARA 311/312 Hazards

Fire (Y/N) Y

Chronic (Y/N) Y

STATE REGULATIONS

Massachusetts Yes

Right to Know

Pennsylvania Right Yes

to Know

New Jersey Right

to Know

Yes

California Proposition 65 This product does not contain any chemicals known to State of California to cause cancer, birth

defects, or any other reproductive harm.

Canada

DSL Status All components are on the Canadian DSL list.

EU

Hazard Flammable. Irritant.

Safety Statements

Keep container tightly closed and dry.

After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).

Risk Statements

Highly flammable.

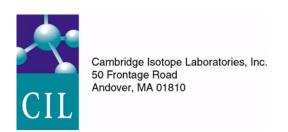
Contact with water liberates extremely flammable gases.

16 OTHER INFORMATION

Additional MSDS Information

This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.





Approved On 04/04/11 Version Number 1