Reflecta Laboratory Supplies
Glassware & Chemicals

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Material Safety Data Sheets (MSDS)

Magnesium Oxide Heavy

Identification of Product

Chemical Code: CHE-M3

Chemical Name: Magnesium Oxide Heavy

Chemical Grade: AR

Chemical Formula: MgO

Chemical Weight: 40,3 g/mol

CAS No: 1309-48-4

Chemical Synonyms: Magnesii Oxidum Ponderosum

Hazards Identification

REACH No: No Data Available

Signal Word:

Supplemental Hazard Information: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

Additional Hazard Information: The product does not need to be labelled in accordance with EC directives or respective national laws.

Hazards statements

Precautionary statements

Composition of Chemical

Chemical Formula: MgO

EC No 1272/2008: No Data Available

First Aid Measures

General Advice: No Data Available

If: Inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

If: Skin Contact: Wash off with soap and plenty of water.

If: Eye Contac: Flush eyes with water as a precaution.

If: Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Important Symptoms: Ingestion or inhalation of a large quantity may cause a feverish reaction and leukocytosis. Diarrhoea

Immediate Medical Attention: No Data Available

Firefighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazards Arising: Magnesium oxide.

Advice for Firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Info for Firefighting: No Data Available

Accidental Release Measures

Personal Precautions: Avoid dust formation. Avoid breathing vapors, mist or gas.

Enviromental Precautions: Do not let product enter drains.

Method for Containment: Sweep up and shovel. Keep in suitable, closed containers for disposal.

Handling and Storage

Personal Precautions: Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

Enviromental Precautions: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic Air sensitive. Air and moisture sensitive.

Exposure Controls | Personal Protection

Derived No Effect Level (DNEL)

Workers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Consumers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Predicted No Effect Concentration (PNEC)

No Data Available

Engineering Controls: General industrial hygiene practice.

Eye/Face Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Immersion protection
Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: > 480 min
Material tested: Dermatril® (Size M)

Splash protection
Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: > 30 min
Material tested: Dermatril® (Size M)

data source: KCL GmbH, D-36124 test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Physical and Chemical Properties

Appearance: White, fine powder

Odour: Odourless

Odour Threshold: No Data Available

pH: No Data Available

Melting Point: Melting Point/Range: 2.852 °C - lit.

Boiling Point: 3.600 °C at 1.013 hPa

Flash Point: Not Applicable

Evaporation: No Data Available

Flammability: No Data Available

Upper/Lower Flammability or Explosive Limits: No Data Available

Vapour pressure: No Data Available

Vapour density: No Data Available

Relative density: 3,580 g/cm3

Water solubility: Insoluble

Partition Coefficien: No Data Available

Auto-ignition Temperature: No Data Available

Decomposition Temperature: No Data Available

Viscosity: No Data Available

Explosive properties: No Data Available

Oxidizing properties: No Data Available

Other Safety Info: No Data Available

Stability and Reactivity

Reactivity: No Data Available

Chemical Stability: No Data Available

Possibility of hazardous reactions: No Data Available

Conditions to Avoid: Air sensitive.

Incompatible Materials: No Data Available

Hazardous Decomposition Products: No Data Available

Toxicological Information

Acute Toxicity: No Data Available

Skin Corrosion/Irritation: No Data Available

Serious Eye damage | Eye Irritation: No Data Available

Cell Mutagenicity: No Data Available

Carcinogenicity: Carcinogenicity - Hamster - Intratracheal
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Olfaction: Tumors. Lungs, Thorax, or Respiration:Tumors.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No Data Available

Specific Target Organ Toxicity - Single Exposure: No Data Available

Specific Target Organ Toxicity - Repeated Exposure: No Data Available

Aspiration Hazard: No Data Available

Ecological Information

Ecological Toxicity: No Data Available

Ecological Persistence and degradability: No Data Available

Bioaccumulative Potential: No Data Available

Mobility in Soil: No Data Available

Results of PBT and vPvB Assessment: No Data Available

Other Adverse Effect: No Data Available

Disposal Considerations

Waste Treatment Methods: Product
Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

Transport Information

UN Number: ADR/RID: -
IMDG: -
IATA: -

UN Shipping Hazard: ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Transport Hazard Class: ADR/RID: -
IMDG: -
IATA: -

Packaging Group: ADR/RID: -
IMDG: -
IATA: -

Enviromental Hazards: ADR/RID: no
IMDG Marine pollutant: no
IATA: no

Special Precautions: No Data Available

Regulatory Information

Safety, Health and environmental regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment: No Data Available

Additional Info: Potential health effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.

Signs and Symptoms of Exposure
Ingestion or inhalation of a large quantity may cause a feverish reaction and leukocytosis. Diarrhoea.
RTECS: OM3850000