

# SAFETY DATA SHEET

Date Printed: 04/19/2024 Date Revised: 01/15/2022

#### **SECTION 1. IDENTIFICATION**

Product Identifier: (5N) 99.999% Magnesium Sulfide

Product Code: MG-S-05

CAS Number: 12032-36-9

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

## **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Self-heating substances and mixtures(Category 2), H252 Acute toxicity, Oral(Category 4), H302 Acute toxicity, Dermal(Category 3), H311 Skin corrosion(Category 1B), H314 Serious eye damage(Category 1), H318 Acute aquatic toxicity(Category 1), H400 Chronic aquatic toxicity(Category 1), H410 GHS Label elements, including precautionary statements Pictogram

Signal word Danger Hazard statement(s) H252 Self-heating in large quantities; may catch fire. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s) P235 + P410 Keep cool. Protect from sunlight. P260 Do not breathe dust or mist. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician. P322 Specific measures (see supplemental first aid instructions on this label). P361 Remove/Take off immediately all contaminated clothing. P363 Wash contaminated clothing before reuse. P391 Collect spillage. P405 Store locked up. P407 Maintain air gap between stacks/ pallets. P410 Protect from sunlight. P413 Store bulk masses greater than .? kg/ .? Ibs at temperatures not exceeding .? °C/ .? °F. P420 Store away from other materials. P501 Dispose of contents/ container to an approved waste disposal plant. Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Formula: MgS Molecular weight: 56.37 g/mol CAS-No.: 12032-36-9 EC-No.: 234-771-1

#### **SECTION 4. FIRST AID MEASURES**

Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital. If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed No data available

# **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media Suitable extinguishing media Dry powder Special hazards arising from the substance or mixture No data available Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Further information No data available

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up Sweep up and shovel. 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 (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Reference to other sections For disposal see section 13.

#### **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition -No smoking. For precautions see section 2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Air and moisture sensitive. Store under inert gas. Specific end use(s) Apart from the uses mentioned in section 1 no other specific uses are stipulated

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** Components with workplace control parameters Contains no substances with occupational exposure limit values. Exposure controls Appropriate engineering controls Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Personal protective equipment Eye/face protection Face shield and safety glasses Use equipment for eve 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 glove's 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. **Body Protection** 

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties Appearance Form: solid Odour No data available Odour Threshold No data available pН No data available Melting point/freezing point No data available Initial boiling point and boiling range No data available Flash point Not applicable Evaporation rate No data available Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available Vapour pressure No data available Vapour density No data available Relative density No data available Water solubility No data available Partition coefficient: n-octanol/water No data available Auto-ignition temperature The substance or mixture is classified as self heating with the category 2. Decomposition temperature No data available Viscosity No data available **Explosive** properties No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid No data available Incompatible materials No data available Hazardous decomposition products Other decomposition products-Hydrogen sulfide gas In the event of fire: see section 5

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity No data available Inhalation: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified 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

No data available

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 Additional Information RTECS: Not available burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

# SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product.

## **SECTION 14. TRANSPORT INFORMATION**

DOT (US) UN number: 3126 Class: 4.2(8) Packing group: II Proper shipping name: Self-heating solid, corrosive, organic, n.o.s.(Magnesium sulphide) Reportable Quantity(RQ): Poison Inhalation Hazard: No IMDG UN number: 3126 Class: 4.2(8) Packing group: II EMS-No: F-A, S-J Proper shipping name: SELF-HEATING SOLID, CORROSIVE, ORGANIC, N.O.S.(Magnesium sulphide) IATA UN number: 3126 Class: 4.2(8) Packing group: II Proper shipping name: Self-heating solid, corrosive, organic, n.o.s.(Magnesium sulphide)

# **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Reactivity Hazard, Acute Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Magnesium sulphide CAS-No. 12032-36-9 New Jersey Right To Know Components Magnesium sulphide CAS-No. 12032-36-9 California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.