SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Identifier: (4N) 99.99% Magnesium Myristate

Product Code: MG-MYSTAT-04

CAS Number: 4086-70-8

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

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
The substance is not classified according to the CLP regulation.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC
not applicable
Classification system:
The classification was made according to the latest editions of the EC
-lists and expanded using company data and specialized literature.
2.2 Label elements
Labeling according to Regulation (EC) No 1272/2008
Void
Hazard pictograms
Void
Signal word
Void
Hazard statements
Void
2.3 Other hazards
Risk of dust explosion
Results of PBT and vPvB assessment
PBT:

Not applicable
vPvB:
Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization: Substances
CAS No. Description:
4086-70-8 Tetradecanoic acid, magnesium salt
Identification number(s):
EC number:
223-817-6

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures
General information:
If symptoms persist or in case of doubt, seek medical advice.
After inhalation:
In case of inhalative exposure to vapors/aerosols during processing:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness, place patients on their side in a stable position for transportation.
After skin contact:
Wash with water and soap and rinse with plenty of water. If skin irritation continues, consult a doctor.
After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:
Consult a physician and show this safety data sheet.
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing agents:
Fire-extinguishing powder
Water jet spray
Alcohol resistant foam
Use fire fighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents:
Water
Carbon dioxide
5.2 Special hazards arising from the substance or mixture
In case of fire, the following can be released:
In case of fire, formation of dense, black smoke
Carbon monoxide and carbon dioxide
Magnesium oxide

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Additional information:
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Avoid formation of dust.
Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
6.2 Environmental precautions:
No special measures required.
6.3 Methods and material for containment and cleaning up:
Ensure adequate ventilation.
Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.
Make sure to recycle or dispose of in suitable receptacles.
6.4 Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment. See
Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Prevent formation of dust.
Any deposit of dust which cannot be avoided must be regularly removed.
Ensure good ventilation/exhaustion at the workplace. Avoid inhalation of dust.
Avoid contact with eyes and skin.
Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Dust can combine with air to form an explosive mixture.
Protect against electrostatic charges.
7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store at ambient temperatures and under dry conditions.
Information about storage in one common storage facility:
Store away from oxidizing agents.
Store away from acids. Store separately from:
Organic peroxides (5.2)
Store away from foodstuffs. Store away from feed.
Further information about storage conditions:
Keep receptacle tightly sealed.
Storage class:
11 Combustible solids
7.3 Specific end use(s)
No further relevant information available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:
Install appropriate mechanical ventilation. Adhere to common dust limit.
No further data; see item 7.
8.1 Control parameters
Components with limit values that require monitoring at the workplace:
Not required
CAS No. Designation of material % Type Value Unit
Additional Occupational Exposure Limit Values for possible hazards during processing:
Observe general threshold limit for dust.
Additional information:
The lists that were valid during the creation were used as basis.
8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures should be adhered to when handling chemicals.
Wash hands before breaks and at the end of work. Do not inhale dust/smoke/mist.
Vacuum contaminated clothing. Do not blow or brush off contamination.
Avoid contact with eyes and skin.
Use skin protection cream for skin protection.
Breathing equipment:
At formation of dust:
Short term filter device (EN 149):
Filter P1
If vapors form, use suitable respiratory protective device.
Filter A (color code: brown)
Protection of hands:
Chemical resistant gloves (EN 374)
The glove material has to be impermeable and resistant to the product/substance/preparation.
Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation
Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics.
Material of gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
For undissolved solid substances following materials may be suitable:
Nitrile rubber, NBR
Butyl rubber, BR
Polychloroprene rubber (CR)
Fluorocarbon rubber (FKM)
Penetration time of glove material:
The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:
Goggles recommended during refilling
Body protection:
Protective work clothing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
General Information:
Appearance:
Form: Solid
Fine powder
Color: White
Odor: Characteristic
Fat-like
Odor threshold: Not determined
pH-value: Not applicable
Change in condition:
Melting point/Melting range:120-125 °C
Boiling point/Boiling range: Not determined
Flash point: Not determined
Self ignition temperature: Product is not self-igniting.
Danger of explosion: Product is not explosive. However, formation of explosive air/dust mixtures is possible.
Explosion limits:
Lower: Not determined
Upper: Not determined
Density: Not determined
Solubility in / Miscibility with Water: Insoluble
Viscosity:
dynamic: Not applicable
kinematic: Not applicable
9.2 Other information
Soluble in acids

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications
10.3 Possibility of hazardous reactions:
Reactions with above-mentioned substances
10.4 Conditions to avoid
No further relevant information available
10.5 Incompatible materials:
Oxidants
Bases
Hydrogen peroxide
Acids
10.6 Hazardous decomposition products:
No hazardous decomposition products if instructions for storage and handling are followed

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity:

LD/LC50 values that are relevant for classification:
Oral LD50 >5000 mg/kg (rat)
Primary irritant effect:
on the skin:
May cause irritation to the skin.
on the eye:
May cause irritation to the eyes.
Sensitization:
No sensitizing effects known
Other information (about experimental toxicology):
Carcinogenic, mutagenic effects and adverse effects on reproduction:
Presently available data show no carcinogenic, mutagenic or teratogenic effects.
Subacute to chronic toxicity:
STOT-single exposure
No data available
STOT-repeated exposure:
No data available
Aspiration hazard
Not relevant

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic toxicity:
Presently there are no ecotoxicological values available.
12.2 Persistence and degradability
No further relevant information available
12.3 Bioaccumulative potential
No further relevant information available
12.4 Mobility in soil
No further relevant information available
Additional ecological information:
General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water is possible if large quantities leak into the ground or into water course.
12.5 Results of PBT and vPvB assessment
PBT:
Not applicable
vPvB:
Not applicable
12.6 Other adverse effects
No further relevant information available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Recommendation:
Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.

Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
Water hazard class:
Water hazard class 1 (Self-assessment): slightly hazardous for water
15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

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.