

# SAFETY DATA SHEET

Creation Date 17-Jan-2011 Revision Date 19-Aug-2019 **Revision Number** 8

# 1. Identification

**Product Name** Magnesium

AC191080000; AC191080025; AC191080100; AC191085000 Cat No.:

CAS-No 7439-95-4

**Synonyms** Magnesium metal (ribbons/turnings)

**Recommended Use** Laboratory chemicals.

Food, drug, pesticide or biocidal product use Uses advised against

## Details of the supplier of the safety data sheet

Company

Acros Organics Fisher Scientific One Reagent Lane One Reagent Lane Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

**Emergency Telephone Number** 

For information US call: 001-800-ACROS-01

/ Europe call: +32 14 57 52 11

Emergency Number US:001-201-796-7100 /

Europe: +32 14 57 52 99

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids Category 1 Self-heating substances and mixtures Category 2 Substances/mixtures which, in contact with water, emit Category 2

flammable gases

#### Label Elements

# Signal Word

Danger

#### **Hazard Statements**

Flammable solid

Self-heating in large quantities; may catch fire In contact with water releases flammable gas

Magnesium

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## **Precautionary Statements**

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Wear protective gloves/protective clothing/eye protection/face protection

Keep cool. Protect from sunlight

Keep away from any possible contact with water, because of violent reaction and possible flash fire

Handle under inert gas. Protect from moisture

#### Skin

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages

Fire

In case of fire: Use fire-fighting equipment on basis class D for extinction

#### Storage

Maintain air gap between stacks/pallets

Store away from other materials

Store in a dry place. Store in a closed container

Store bulk masses at temperatures not exceeding manufacturer recommendations

Store in a well-ventilated place. Keep container tightly closed

### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Magnesium	7439-95-4	>95

## 4. First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

**Inhalation** Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial

respiration.

**Ingestion** Do not induce vomiting. Get medical attention.

Most important symptoms and

effects

No information available.

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. approved class D extinguishers. clay. sodium carbonate.

Magnesium

Unsuitable Extinguishing Media No information available

**Flash Point** 500 °C / 932 °F

Method -No information available

472.8 °C / 883 °F **Autoignition Temperature** 

**Explosion Limits** 

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Water reactive. Produce flammable gases on contact with water. Flammable.

#### **Hazardous Combustion Products**

Magnesium oxides

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health Physical hazards **Flammability** Instability 0 W 4 2

## Accidental release measures

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. **Personal Precautions** 

Remove all sources of ignition.

**Environmental Precautions** See Section 12 for additional ecological information.

Methods for Containment and Clean Pick up and transfer to properly labelled containers. Remove all sources of ignition. Do not

expose spill to water. Up

7. Handling and storage

Protect from moisture. Avoid contact with skin and eyes. Wash hands before breaks and Handling

immediately after handling the product. Ensure adequate ventilation. Wear personal

protective equipment.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away Storage

from heat and sources of ignition. Never allow product to get in contact with water during

storage. Store under an inert atmosphere.

8. Exposure controls / personal protection

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Use explosion-proof **Engineering Measures** 

electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers

are close to the workstation location.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

Magnesium

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

No special protective equipment required. **Respiratory Protection** 

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Solid **Physical State** Silver **Appearance** Odor Odorless

**Odor Threshold** No information available

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Melting Point/Range 651 °C / 1203.8 °F **Boiling Point/Range** 1107 °C / 2024.6 °F Flash Point 500 °C / 932 °F **Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available Lower No data available negligible **Vapor Pressure** Vapor Density Not applicable

**Specific Gravity** No information available Solubility No information available Partition coefficient; n-octanol/water No data available

**Autoignition Temperature** 472.8 °C / 883 °F **Decomposition Temperature** No information available

**Viscosity** Not applicable

Molecular Formula Mg **Molecular Weight** 24.3

# 10. Stability and reactivity

Yes **Reactive Hazard** 

Stability Stable under normal conditions. Air sensitive. Water reactive.

**Conditions to Avoid** Protect from water. Exposure to air. Incompatible products. Exposure to moist air or water.

Acids, Strong oxidizing agents, Halogens, Acid chlorides **Incompatible Materials** 

Hazardous Decomposition Products Magnesium oxides

Hazardous polymerization does not occur. **Hazardous Polymerization** 

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

### **Product Information**

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Magnesium	Magnesium LD50 = 230 mg/kg (Rat)		Not listed

No information available **Toxicologically Synergistic** 

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**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** May cause irritation

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Magnesium	7439-95-4	Not listed				

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

Ecotoxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Persistence and Degradability Insoluble in water

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Is not likely mobile in the environment due its low water solubility.

## 13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

DOT

UN-No UN1869 Proper Shipping Name MAGNESIUM

Hazard Class 4.1
Packing Group

**TDG** 

UN-No UN1869
Proper Shipping Name MAGNESIUM

Hazard Class
Packing Group

4.1 III

IATA

**UN-No** UN1869

Revision Date 19-Aug-2019 Magnesium

**Proper Shipping Name MAGNESIUM** 

**Hazard Class** 4.1 **Packing Group** Ш

IMDG/IMO

**UN-No** UN1869 **Proper Shipping Name MAGNESIUM** 

**Hazard Class** 4.1 **Packing Group** Ш

# 15. Regulatory information

#### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Magnesium	7439-95-4	X	ACTIVE	-

#### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Magnesium	7439-95-4	Х	-	231-104-6	Х	-	Х	Х	KE-22673

#### U.S. Federal Regulations

**SARA 313** Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

**CWA (Clean Water Act)** Not applicable

Not applicable Clean Air Act

**OSHA** - Occupational Safety and

Health Administration

Not applicable

**CERCLA** Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Magnesium	X	X	X	-	X

## **U.S. Department of Transportation**

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

U.S. Department of Homeland

This product contains the following DHS chemicals:

Security Legend - STQs = Screening Threshold Quantities, APA = A placarded amount

#### Magnesium

Component	DHS Chemical Facility Anti-Terrorism Standard
Magnesium	-

### Other International Regulations

Mexico - Grade No information available

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**