


Safety Data Sheet
according to 1907/2006/EC, Article 31

1 Identification of substance	
Product details	
Trade name	
Manufacturer/Supplier:	
Emergency information:	21/23, Rue des Ardennes 75940 PARIS Cédex 19
2 Hazards identification	☎ 33.1.44.73.10.70 - Fax 33.1.44.73.10.53
Hazard designation:	void
Information pertaining to particular dangers for man and environment	Not applicable
3 Composition/information on ingredients	
Chemical characterization:	
Designation:	(CAS#) Magnesium (CAS# 7439-95-4), 100%
Identification number(s):	
EINECS Number: 231-104-6	
4 First aid measures	
General information	No special measures required.
After inhalation	Seek medical treatment in case of complaints.
After skin contact	The product is not skin irritating.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
After swallowing	Seek medical treatment.
5 Fire fighting measures	
Suitable extinguishing agents	Special powder for metal fires. Do not use water.
For safety reasons unsuitable extinguishing agents	Water. Carbon dioxide Halocarbon extinguisher
Protective equipment:	No special measures required.
6 Accidental release measures	
Person-related safety precautions:	Not required.
Measures for environmental protection:	Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting:	Collect mechanically.
Additional information:	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.
7 Handling and storage	
Handling	
Information for safe handling:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. No special precautions necessary if used correctly.
Information about protection against explosions and fires:	Fine powder: highly flammable
Storage	
Requirements to be met by storerooms and containers:	No special requirements.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	None.
8 Exposure controls and personal protection	
Additional information about design of technical systems:	No further data; see item 7.
Components with critical values that require monitoring at the workplace:	Not required.
Additional information:	No data
Personal protective equipment	
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.
Breathing equipment:	Not required.
Protection of hands:	Not required.
Eye protection:	Safety glasses
Body protection:	Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form:	Solid.
Colour:	Silver-coloured
Smell:	Odourless
Change in condition	
Melting point/Melting range:	650°C
Boiling point/Boiling range:	1107°C
Sublimation temperature / start:	Not determined
Flash point:	Not applicable
Inflammability (solid, gaseous)	Product is not inflammable. Powder: contact with water liberates extremely flammable gases.

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Trade name <i>Magnesium ingot</i>	
(Contd. of page 1)	
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined
Upper:	Not determined
Steam pressure at 621°C:	1.33 hPa
Density at 20°C	1.74 g/cm ³
10 Stability and reactivity	
Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
Materials to be avoided:	Oxidizing agents Halogens Halocarbons Acid chlorides
Dangerous reactions:	No dangerous reactions known Powder: contact with water liberates extremely flammable gases.
Dangerous products of decomposition:	Metal oxide
11 Toxicological information	
Acute toxicity:	
Primary irritant effect:	
on the skin:	Powder: irritant effect
on the eye:	Powder: irritant effect
Sensitization:	No sensitizing effect known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
12 Ecological information:	
General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.
13 Disposal considerations	
Product:	
Recommendation	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.
Uncleaned packagings:	
Recommendation:	Disposal must be made according to official regulations.
14 Transport information	
Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)	
ADR/RID-GGVS/E Class:	None
Maritime transport IMDG/GGVSea:	
IMDG/GGVSea Class:	None
Air transport ICAO-TI and IATA-DGR:	
ICAO/IATA Class:	None
Transport/Additional information:	Not dangerous according to the above specifications.
15 Regulatory information	
Designation according to EC guidelines:	Observe the normal safety regulations when handling chemicals The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
National regulations	
Information about limitation of use:	For use only by technically qualified individuals.
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
16 Other information:	
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	
Department issuing data specification sheet:	Institute of Physics PAS, Warsaw / Poland
Contact: Prof. A. Mycielski	