# ooo philip harris

# SAFETY DATA SHEET

MAGNESIUM

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Compilation date: 01/06/2015

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product name: MAGNESIUM

REACH registered number(s): 01-2119537203-49-XXXX

CAS number: 7439-95-4

EINECS number: 131-104-6

Index number: 012-002-00-9

Product code: A68950

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Laboratory Chemicals, Manufacture of Substances.

# 1.3. Details of the supplier of the safety data sheet

Company name:	PHILIP HARRIS
	2 Gregory Street
	Hyde
	Cheshire
	SK14 4HR
	United Kingdom
Tel:	+44 (0)845 1200 506
Fax:	+44 (0)161 367 2140
Email:	enquiries@philipharris.co.uk

# **1.4. Emergency telephone number**

Emergency tel: +44 (0) 845 1200 506

# Section 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification under CLP:	Pyr. Sol. 1: H250; Water-react. 1: H260
Most important adverse effects:	Catches fire spontaneously if exposed to air. In contact with water releases flammable
	gases which may ignite spontaneously.

## 2.2. Label elements

Label elements:	
Hazard statements:	H250: Catches fire spontaneously if exposed to air.
	H260: In contact with water releases flammable gases which may ignite spontaneously.
Signal words:	Danger
Hazard pictograms:	GHS02: Flame



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Precautionary statements:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition		
	sources. No smoking.		
	P222: Do not allow contact with air.		
	P223: Keep away from any possible contact with water, because of violent reaction and		
	possible flash fire.		
	P231+232: Handle under inert gas. Protect from moisture.		
	P280: Wear protective gloves/protective clothing/eye protection/face protection.		
	P370+378: In case of fire: Use dry powder to extinguish.		

2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

# Section 3: Composition/information on ingredients

# 3.1. Substances

Chemical identity: MAGNESIUM POWDER (PYROPHORIC)

CAS number: 7439-95-4

EINECS number: 131-104-6

REACH registered number(s): 01-2119537203-49-XXXX

Section 4: First aid measures

4.1. Description of first aid mea	asures
Skin contact:	Wash immediately with plenty of soap and water. Consult a doctor.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Wash out mouth with water. Never give anything by mouth to an unconcious person
	Consult a doctor.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If breathing
	is irregular or stopped, administer artifical respiration. Consult a doctor.
4.2. Most important symptoms and effects, both acute and delayed	
Skin contact:	There may be mild irritation at the site of contact.
Eye contact:	There may be irritation and redness.
Ingestion:	There may be irritation of the throat.
Inhalation:	No symptoms.
4.3. Indication of any immediate medical attention and special treatment needed	
Immediate / special treatment:	Show this safety data sheet to the doctor in attendance. The most important known
	symptoms and effects are described in the labelling (see section 2.2) and/or in section
	11
Section 5: Fire-fighting measures	

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## 5.1. Extinguishing media

**Extinguishing media:** Dry chemical powder.

## 5.2. Special hazards arising from the substance or mixture

#### Exposure hazards: In combustion emits toxic fumes. Magnesium Oxides

#### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

## Section 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventiliation. Evacuate personnel to a safe area.

## 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

#### 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Dispose of contaminated material as waste according to item 13.

#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements: Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - no smoking. Take measures to prevent build up of electrostatic charge. For precautions see section 2.2

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. The floor of the
	storage room must be impermeable to prevent the escape of liquids.
Suitable packaging:	Keep containers tightly sealed. Store in cool, Dry place in tighlty closed containers.
	Ensure good ventilation/exhaustion at the work place. Never allow product to come into
	contact with water.

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# 7.3. Specific end use(s)

Specific end use(s): Apart from uses mentioned in section 1.2 no other specific uses are stipulated.

# Section 8: Exposure controls/personal protection

## 8.1. Control parameters

Workplace exposure limits: No data available.

# **DNEL/PNEC** Values

DNEL / PNEC No data available.

5.12271.1120	
8.2. Exposure controls	
Engineering measures:	The floor of the storage room must be impermeable to prevent the escape of liquids.
	Handle in accordance with good industrial hygiene and safety practice. Wash hands
	before breaks and at the end of workday.
Respiratory protection:	Respiratory protection not required. Where risk assessment shows air-purifying
	respirators are appropriate use a full face particle respirator type N100 (US) or type P3
	(EN143) respirator cartridges as a back up to engineering controls. If the respirator is
	the sole means of protection use a full face supplied air respirator. Use respirators and
	components tested & approved under appropriate government standards eg CEN (EU)
	or NIOSH (US).
Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal
	technique (without touching the gloves outer surface) to avoid skin contact with this
	product. Dispose of contaminated gloves after use.
	Wash and dry hands. Full contact
	Material: Nitrile rubber
	Minimum layer thickness: 0.11 mm
	Break through time: 480 min
	Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact
	Material: Nitrile rubber
	Minimum layer thickness: 0.11 mm
	Break through time: 480 min
	Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)
Eye protection:	Face shield and safety glasses. Use equipment for eye protection test and approved
	under approperiate government statments such as NIOSH (US) or EN 166(EU)
Skin protection:	Protective clothing. The type of protective equipment must be selected according to the
	concentration and amount of the dangerous substance at the specific workplace.
Environmental:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
	Discharge into the environment must be avoided.

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9.1. Information on basic physical and chemical properties State: Powder Colour: Grey Odour: Odourless Solubility in water: Insoluble Boiling point/range°C: 1107 Melting point/range°C: 651 Relative density: 1.74 9.2. Other information Other information: No data available. Section 10: Stability and reactivity Reactivity: Stable under recommended transport or storage conditions. 10.2. Chemical stability Chemical stability: Stable under normal conditions. 10.3. Possibility of hazardous reactions Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Water reactive: will react with water or moisture to produce heat and flammable/toxic gases. Reacts violently with water. 10.4. Conditions to avoid Conditions to avoid: Heat. Hot surfaces. Flames. Sources of ignition. Sparks Moist air. Exposure to moisture. Extremes of temperature. 10.5. Incompatible materials Materials to avoid: Strong oxidising agents. Oxidising agents. Strong acids. 10.6. Hazardous decomposition products Haz. decomp. products: In combustion emits toxic fumes. In the event of fire see section 5. Section 11: Toxicological information 11.1. Information on toxicological effects Toxicity values: No data available.

Symptoms / routes of exposure

Section 9: Physical and chemical properties

10.1. Reactivity

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

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## Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

#### 12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

## 12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

## 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

## Section 13: Disposal considerations

# 13.1. Waste treatment methods

Transfer to a suitable container and arrange for collection by specialised disposal
company. Burn in a chemical incinerator equipped with an afterburner and scrubber but
exert extra care as this material is highly flammable. Offer surplus and non-recyclable
solutions to a licensed disposal company.
Dispose of as unused product.
The user's attention is drawn to the possible existence of regional or national
regulations regarding disposal.

# Section 14: Transport information

14.1. UN number

UN number: UN1418

14.2. UN proper shipping name

Shipping name: MAGNESIUM ALLOYS POWDER

14.3. Transport hazard class(es)

Transport class: 4.3 (4.2)

14.4. Packing group

Packing group: |

14.5. Environmental hazards

Environmentally hazardous: No

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# 14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 1

# Section 15: Regulatory information

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

# 15.2. Chemical Safety Assessment

# Section 16: Other information

## Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No
	453/2010.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	H250: Catches fire spontaneously if exposed to air.
	H260: In contact with water releases flammable gases which may ignite spontaneously.
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive
	and shall be used only as a guide. This company shall not be held liable for any
	damage resulting from handling or from contact with the above product.