

MATERIAL SAFETY DATA SHEET

CONFIRMS TO DIRECTIVE 67/548/EEC and 1999/45/EC
Version: 2.1 Revision date: 13.1.26

NAME: SPARXTAR POWDER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 **Product identifier**
Trade Name: SPARXTAR Powder
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
Relevant identified use: Cold Sparkle Machine, Indoor/Outdoor Events.
For professional use only.
Uses advised against: Please consult manufacturer.
- 1.3 **Details of the supplier of the material safety data sheet**

Company identification:
Company: Magic FX B.V.
Address: Schouwrooij 27
NL-5281 RE Boxtel
Tel: +31 (0)411-748100
E-mail: info@magicfx.eu
Web: www.magicfx.eu
- 1.4 **In case of emergency (ICE)**
Telephone: +31 (0)6 5130 3858

CHEMTREC Telephone:
US: +1 (0)800 424 9300
International: +1 (0)703 527 3887

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLP Regulation (EC) n° 1272/2008:

Not applicable

Directive 67/548/EEC and 1999/45/EC:

Not applicable

2.2 Safety statements

Not applicable when still in the vacuum packed aluminium foil bag pouch

When opened

S7/8 Keep container tightly closed and dry.

2.3 Label elements

CLP Regulation (EC) n° 1272/2008:

Code letter:

F

Hazard designation of product: Highly flammable

Warning:



2.4 Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

2.5 Precautionary statements:

P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P301+P312 If swallowed, call a poison center or doctor/physician if you feel unwell.

P302+P334 If on skin, immerse in cool water / wrap in wet bandages.

P305+P351+P338 If in eyes, rinse cautiously with water several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs, get medical advice / attention.

P402+P404 Store in a dry place. Store in a closed container

2.6 Supplemental statements:

Not applicable

2.7 Hazard description

WHMIS classification (Workplace Hazard Materials Identification System, ratings scale: 0-4)

Health (acute effects): 1

Flammability: 2

Reactivity: 1

Other Hazards:

Result of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS

3.1 Ingredients

Identification	Chemical name / Classification			Concentration
CAS: 7440-67-7 EC: 231-176-9 Index: REACH:	Zirconium	ATP CLP100		80 - 97%
	Regulation 1272/2008	Self-heating Spontaneously flammable		
CAS: 7440-58-6 EC: 231-166-4 Index: REACH:	Hafnium	ATP CLP100		1 - 4%
	Regulation 1272/2008	Self-heating Spontaneously flammable		

Additional information: Zirconium is routinely found with a low level of Hafnium since separation of the two elements is difficult.

Molecular Formula: Zr

Molecular Weight: 91.22

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

In all cases, after cleaning, medical advice should be consulted as quickly as possible with the MSDS.

Inhalation

Prolonged or repeated exposure to large amounts may cause damage to lungs. Remove victim to fresh air. Restore and/or support breathing as needed.

Skin contact

Prolonged or repeated exposure may be irritating. Wash thoroughly with soap and water. Remove and properly dispose or launder contaminated clothing before wearing it again. Clean material from shoes and equipment.

Eye contact

Moderate irritating to eyes. Immediately flush eyes gently and thoroughly, including under the eyelids, with clean running water for 20 minutes.

Ingestion

Prolonged or repeated exposure may be irritating to mouth, throat and esophagus. Never give anything by mouth to someone who is unconscious or convulsing. A professional decision about whether or not to induce vomiting is required. Call poison treatment specialist immediately if large quantities have been ingested.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing methods

Suitable extinguishing methods

Class D fire extinguisher or dry sand (for small quantities).

Unsuitable extinguishing media

Do not use water or foam.

Advice for firefighters

Wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

Particular risks:

May emit hazardous fumes under fire conditions. Pyrophoric, dangerous when wet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away.

6.2 Environmental precautions

Keep spilt material away from drains and runoff, ground water and soil. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Sweep or shovel material into dry containers. Avoid creating uncontrolled dust.

6.4 Reference to other sections

Refer to Section 13 for disposal of product and contaminated materials.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

7.2 Technical recommendations for the prevention of fires and explosions

Handle and store in a tightly closed container (under inert gas) in a dry, well-ventilated place.

7.3 Conditions for safe storage, including any incompatibilities

Technical measures for storage

Minimum Temp.: 0 °C

Maximum Temp.: 50 °C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Exposure limit values:

Chemical Name	ACGIH TLV (mg/m ³)	OSHA PEL (mg/m ³)
Zirconium 7440-67-7	STEL: 10 (mg/m ³), STEL: 10 (mg/m ³) Zr TWA: 5 (mg/m ³), TWA: 5 (mg/m ³) Zr	TWA: 5 (mg/m ³) Zr (vacated) STEL: 10 (mg/m ³), (vacated) STEL: 10 (mg/m ³) Zr

8.2 Exposure controls



8.2.1 Occupational exposure controls

Install and operate general and/or local exhaust ventilation systems of sufficient power to maintain airborne concentration below the defined or recommended limit.

8.2.2 Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the material, and the safe working limits of the selected respirator.

8.2.3 Hand protection

Non-static gloves when skin abrasion is possible. For hygienic reasons, rubber gloves should not be worn more than 2 hours.

8.2.4 Eye protection

Safety glasses with side shields or goggles when potential exposure exists. Make sure that there is an eyewash facility in your vicinity.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Solid metallic granules, grey
Odour:	None
Melting point:	1852 °C
Boiling point:	4377 °C
Explosive properties:	Not applicable
Relative density:	6.506 g/cm ³
Water solubility:	Insoluble.
Oxidizing properties:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not applicable
Other information:	No further relevant information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1 **Reactivity**
Not applicable.
- 10.2 **Stability**
Stable under normal storage conditions.
- 10.3 **Possibility of hazardous reactions**
Powder may cause fire.
- 10.4 **Conditions to avoid**
Heat, flame, sparks, static electricity, other ignition sources.
- 10.5 **Incompatible materials**
Acids, oxidizing agents.
- 10.6 **Hazardous decomposition products**
Metal oxide fume.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 **Target Organs**
Not available
- 11.2 **Toxicity**
Not available
- 11.3 **Skin corrosion/irritation**
Not available
- 11.4 **Serious eye damage/irritation**
Not available
- 11.5 **Carcinogenicity**
Not available

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 **Toxicity**
Not available
- 12.2 **Persistence and degradability**
Not available
- 12.3 **Bio-accumulative potential**
Not available
- 12.4 **Mobility in soil**
Not available

- 12.5 **Results of PBT and vPvB assessment**
Not applicable
- 12.6 **Other adverse effects**
No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID) (cross-border),
Maritime transport (IMDG),
Air transport (ICAO-TI and IATA-DGR).

- 14.1 **UN number**
UN 3178
- 14.2 **UN proper shipping name**
Flammable Solids, Inorganic
- 14.3 **Transport hazard class**
Class 4.1
- 14.4 **Packing group**
Packing group III
- 14.5 **Environmental hazards**
No
- 14.6 **Special precautions for user**
Not available
- 14.7 **Transport in bulk according to Annex II of MARPOL 73/78 and IBS Code**
Not available

SECTION 15: REGULATORY INFORMATION

United States:

Toxic Substance Control Act (TSCA):	Listed
Superfund Amendments and Reauthorization Act (SARA 302):	Not Listed
Superfund Amendments and Reauthorization Act (SARA 311/312):	Listed
Superfund Amendments and Reauthorization Act (SARA 313):	Listed

European Union:

European Inventory of Existing Chemical Substances (EINECS):	No. 231-176-9
Hazard Codes:	F, Xi

Canada:

Canadian Domestic Substances List (DSL):	Listed
Canadian Domestic Substances List (NDSL):	Not Listed

SECTION 16: OTHER INFORMATION

This product is manufactured for the purpose of being heated and ejected by equipment specifically designed for that use. The powder is typically used as a visual special effect, to simulate sparks or pyro technique.

Note:

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 materials used in combination with any other materials or in any process, unless specified in the text.

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