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Chemical product and company identification

- Product information
- Product name: **Sparklepowder**
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- Company address:

TBF-PyroTec GmbH
Lichterfelder Str. 5 A
21502 Geesthacht
Tel.: 04152/157 9950
Fax: 04152/157 9951
- Contact information:
Mr. Graba

Tel.: 0049 4152/ 157 9950
- Emergency telephon:
Mr. Graba
Tel.: 0049 4152/ 157 9950

2 Composition/ information on ingredients

- Chemical components

Lycopodium	50-90 %
Iron alloy powder	10-50 %

2 Hazards Identification

No special hazards

3 First aid measures

- General measures
Use dust masks by handling of this material

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- After inhalation:
- If inhaled, remove to fresh air. If symptoms develop and persist get medical attention. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Skin contact: Flush skin with plenty of water.
- Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- If swallowed: make victim drink water. Get medical attention.

5 Fire- fighting measures

- Suitable extinguishing media
extinguishing powder or foam. Fight major fire with foam.
Dust explosion possible.

6 Accidental Release Measures:

- Remove sources of ignition during storage.
- Environmental precautions:
Prevent product from entering drains or open water
- Clean up methods::
Collect Powder with broom and shovel

7 Handling and storage

- Handling:
Keep container tightly closed.
Keep away from heat, sparkles or sources of ignition.
Store in dry and cool in a well ventilated place.
- Storage:
Store in dry and cool conditions.
- Incompatible products:
Store away of acids

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8 Exposure controls / Personal protection

- General protective and hygienic measures
 Normally hygienic measures
 Personal protective equipment:
- Respiratory protection: Dust mask
- Hand protection: normally not necessary
- Eyes protection: normally not necessary

9 Physical and chemical properties

- Form: powder
- Colour: Pale yellow
- Odour: No odour
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	<u>Value</u>	<u>Dimension</u>	<u>Method</u>
• Change in physical state:			
Melting point		°C	
Boiling point		°C	
• Flash point:	non-applicable		°C
• Ignition temperature:	>350	°C	
• Explosion limits:			
Lower limit:		Vol %	
Upper limit:		Vol %	
• Vapour pressure 20 °C	non-applicable		
• Density by 20 °C			
• pH-value:	neutral		

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10 Stability and reactivity

- Thermal decomposition and conditions to avoid:
None known
- Materials to avoid:
Acids. With acids a strong reaction is possible. Development of high-explosive hydrogen-gas is possible.

11 Toxicological information

- Acute Toxicity:
- LD/LC50-Values:

None known

Sensitization:
Sensitization test (guinea pig): negative.
Noncarcinogenic in animal experiments.
Bacterial mutagenicity: Salmonella typhimurium: negative.

Further toxicological information

After inhalation of vapours: non-applicable
After skin contact: no absorption
After eye contact: Slight irritations. Non known
After swallowing: None known
After absorption: None effects known

12 Ecological information

Abiotic degradation:

Biologic degradation:
Behavior in environmental compartments: Distribution:
No bioaccumulation is to be expected (log P (o/w) <1)

- Ecological Effects:
- Remarks:
Toxicity to Fish (*L. macrochirus*): LC50 (96h):
Daphnia toxicity: EC50 (48h): > 10000 mg/l
Algal toxicity (*Sc. Quadricauda*): IC5 (8h):
- General information:
Do not discharge into the drains, waters and do not store on public depositories

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13 Disposal considerations

- **Product:**
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.
- **Packaging:**
Contaminated packaging should be disposed of in agreement with the local waste disposal company.

14 Transport information

- Landtransport ADR/RID und GGVS/GGVE (grenzüberschreitend/Inland)
- ADR/RID/E class: No dangerous good
- Packaging group: No dangerous good
- UN-Number: No dangerous good

- Marine transport IMDG/GGVSee
- IMDG/GGVSea-class: No dangerous good
- UN-Number: No dangerous good
- Packaging group: No dangerous good

- Air transport ICAO-TI und IATA-DGR
- ICATO/IATA-Klasse: No dangerous good
- UN-ID-Nr. No dangerous good
- Verpackungsgruppe: No dangerous good

15 Regulatory information

Labelling in accordance with EC directives
No dangerous good

- **Hazard symbols:**
No dangerous good
- **R-phrases** No dangerous material
- **S-phrases:** No dangerous material

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16 other information:

This information based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

- Department issuing safety data sheet:

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