LER1616 Safety Data Sheet

Date of Preparation: January.11th,2019

Section I Product and Manufacturer

Product Name: Flexible Magnets Sheet

Manufacturer: hand2mind
Address: 500 Greenview Court, Vernon Hills, Illinois, 60061 USA
In Case of emergency: Call your local emergency number

Section II Composition/Information on Ingredients

The chemical is a mixture
Chemical name: Strontium Ferrite ($SrO.6Fe_2O_3$)
Hazardous Ingredients: $SrCl_2$. Standard content of $SrCl_2$ (GB/T114848-93) Standard of underground water quality : class Ⅰ, 0.01; class Ⅱ, 0.1 ; classⅢ,1.0; classⅣ,4.0 ; class Ⅴ, more than 4.0;TLV of the hazardous material in drinking water is 0.7mg/1; (Industry standard):
TLV-TWA 0.5mg/m^3; STEL 0.5mg/m^3
CASE NO.10361-37-2

Section III Hazard Data

Hazard Classification: Strontium Ferrite (un-listed), $SrCl_2$ is hazardous.
Ingestion: inhalation
Harm: Strontium Ferrite has little toxicity .However, it contains soluble barium salt such as $SrCl_2$ and $SrNo_3$ that is seriously hazardous when it is ingested . It will cause gastrointestinal tract distress, muscle anaesthetization and myocardial infarction which leads to death. Inhalation dusts and particulates of soluble barium compound may cause accurate barium toxicosis which appears mostly like oral administration toxicosis but the response of alimentary tract is quicker. Worker who contacts barium compound for a long time may appear drooly,faint, rhinolaryngitis, increasing blood pressure and losing hair and so on. Prolonged contact with dusts of barium compound such as vitriolic barium may cause pneumoconiosis.
Environment harm: chemical reaction has high stability and it won't cause harm to environment.
Fire hazard: No information

Section IV First Aid Measures

Skin: remove any contaminated clothing and wash thoroughly with soap and water.
Eyes: flush with running water for holding the eyelids wide open. Seek medical

attention and doctor.
Inhalation: remove exposed person to fresh air. If breathing is difficult, oxygen may
Ingestion: Drink enough water to induce vomiting. Flush the stomach with 2%to 5% $BaNo_3$ liquid to induce lax. Seek medical treatment.

Section V Fire Fighting Measures

Hazard characteristic; no information
Harmful burning product: CO2, CO
Fire fighting methods: water, foam and sand
Fire fighting per-caution: no information

Section VI Accidental Release Measures

Emergency handling: separated from the exposed area and forbid anyone to enter. A self contained breathing apparatus operating in the positive pressure mode and full fire fighting protective clothing should be worn for combating fires. Don't contact the scoop to dry and clean container. Large amount release: covered with plastic and canvas to reduce dust. Then collect or recycle them to trash handling place.

Section VII Handling and Storage

Operating advice: wear anti-dust respirator in the processing of powder.
Storage advice: keep the warehouse ventilated, low-temperature and dried; separate from food additive and acid food.

Section VIII Contact control/Personal Protection

TLV: No information
Test method: no industry test method but the lab test method is available.

Test method	**Source**	**Classification**
Colorimetry	**EPA method 9250,9251**	**Water quality**
Titration	**EPA method 9252**	**Water quality**
Plasma spectrum	**EPA method 200.7**	**Water quality**
Atom absorb	**EPA method 7080**	**Water quality**
Barium sulfate	**Chemical Industry harmful material in the air testing method,**	**Chemical Industry Air**

Project control: The working area should keep close during the producing of powder, good exhaust fan is needed and safe shower and clean water must be supplied!
Respirator system protection: no special protection is needed in normal condition;

filtrating respirator is needed in the processing of powder.
Eyes protection: no special protection is needed in normal condition.

Body protection: no special protection is needed in condition, wear common clothes.
Hand protection: no special protection is needed in normal condition.
Other protection: no special protection is needed in normal condition.

Section IX Physical Characteristic

Appearance and property: magnetic powder is black, and the finished product is strip.
PH value: solid, no test recorder.

Melting point: 965℃; Density (Water=1):3.86. ($SrCl_2$)

Boiling point: 1560℃;Vapor density (Air=1): No information available.($SrCl_2$)

Vapor pressure: No information available
Critical temperature and pressure: No information available
Flash point: No information available
Auto ignition temperature: no information available
Solubility: this product is indiscerptible.
The toxicant $SrCl_2$ is soluble in water but indiscerptible in acetone and ethanol, slightly soluble in acetic acid and vitriol.
Main usage: refrigeratory, icebox and disinfector's airproof

Section X Stability and reactivity

Stability: the product is very stable.
Incompatibility: Boron trifluoride
Condition to avoid: non-direct contact
Polymerization harm: exquisite reactivity
Disassemble product: H_2Cl, SrO

Section XI Toxicological Information

Acute toxicity: LD50 118mg/kg ($SrCl_2$)
Irritant: no information available
Sensitizer: no information available
Mutagen: no information available
Carcinogen: no information available
Other: on information available

Section XII Ecological information

Detailed studies have not been conducted concerning the environmental fate of the product.

Section XIII Disposal consideration

Characteristic of the castoff: industry castoff
Method of disposal: burning
Advice of disposal: no information available

Section XIV Transportation Information

Hazardous goods reference: no
UN reference: no
Shipping mark: no
Shipping classification: no requirement
Packing method: common paper packing or wooden pallet packing
Shipping advice: no

Section XV Regulatory Information

Regulatory information: Hazardous Chemical Safety Administration Rule (Issue by State Department on Feb.17, 1987). Chemical Safety Administration Rule and Implementary Details (Chemical Department issue (1992) NO.667), GB 13690-92 , Common Hazardous Chemical Classification and Symbol.

Section XVI Other Information

Reference: GB16483-2000, (Chemical Safety Technical Sheet Specification)
GB13690-92, (Common Hazardous Chemical Classification and Symbol)