

## SECTION 1: IDENTIFICATION

### 1.1. PRODUCT IDENTIFIER

Product name : Pyrogel 100  
Product code : Not available

### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Use of the substance/mixture : Non-destructive testing

### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

#### Manufacturer

Magnaflux  
155 Harlem Ave.  
Glenview, IL 60025 - USA  
T: 847-657-5300

#### Distributor

### 1.4. EMERGENCY TELEPHONE NUMBER

Emergency number : CHEMTREC 800-424-9300

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### GHS classification

Not classified

### 2.2. LABEL ELEMENTS

#### GHS labeling

No labelling applicable.

### 2.3. OTHER HAZARDS

No additional information available.

### 2.4. UNKNOWN ACUTE TOXICITY (GHS)

Not applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. SUBSTANCE

Not applicable.

### 3.2. MIXTURE

Name	Product identifier	%
Silica, amorphous, fumed, crystalline-free	(CAS No) 112945-52-5	6.00

## SECTION 4: FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms/injuries after inhalation : May cause respiratory tract irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

**SECTION 5: FIREFIGHTING MEASURES**

**5.1. EXTINGUISHING MEDIA**

Suitable extinguishing media : Water spray. Alcohol resistant foam. Dry chemical. Carbon dioxide.  
 Unsuitable extinguishing media : None known.

**5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, silicon oxides, formaldehyde. Traces of benzene (carcinogen) may form if heated in air above 149°C (300°F).

**5.3. ADVICE FOR FIREFIGHTERS**

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

General measures : Use personal protection recommended in Section 8. Keep unnecessary personnel away from the release.

**6.2. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).  
 Methods for cleaning up : Scoop up material and place in a disposal container.  
 Other information : Spilled material may present a slipping hazard.

**6.3. REFERENCE TO OTHER SECTIONS**

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

**SECTION 7: HANDLING AND STORAGE**

**7.1. PRECAUTIONS FOR SAFE HANDLING**

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.  
 Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

**7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Storage conditions : Keep out of the reach of children. Keep container tightly closed.

**7.3. SPECIFIC END USE(S)**

Not available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. CONTROL PARAMETERS**

*Silica, amorphous, fumed, crystalline-free (112945-52-5)		
ACGIH	Not applicable.	
OSHA	OSHA PEL (TWA) (mppcf)	20 mppcf
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	(80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup>
USA - IDLH	US IDLH (mg/m <sup>3</sup> )	3000 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>

\*Exposure limits are found under amorphous silica CAS No 7631-86-9

**8.2. EXPOSURE CONTROLS**

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.  
 Hand protection : None necessary under normal conditions of use. Wear gloves if handling large quantities.  
 Eye protection : Safety glasses or goggles are recommended when using product.  
 Skin and body protection : Wear suitable protective clothing.

Respiratory protection	: None necessary under normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Appearance	: Viscous
Color	: Colorless
Odor	: Mild
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 293 °C (559 °F) (COC)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: 1.07 - 1.075
Relative vapor density at 20 °C	: No data available
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 479 - 482 °C (894-899 °F)
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2. OTHER INFORMATION

No additional information available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

### 10.2. CHEMICAL STABILITY

Stable under normal storage conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

### 10.4. CONDITIONS TO AVOID

Heat. Incompatible materials.

### 10.5. INCOMPATIBLE MATERIALS

Oxidizing agents.

### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon, silicon oxides, formaldehyde. Traces of benzene (carcinogen) may form if heated in air above 149°C (300°F).

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute toxicity : Not classified

Pyrogel 100	
LD50 oral rat	No data available
LD50 dermal rabbit	No data available
LC50 inhalation rat	No data available

Silica, amorphous, fumed, crystalline-free (112945-52-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Based on available data, the classification criteria are not met.  
 Serious eye damage/irritation : Based on available data, the classification criteria are not met.  
 Respiratory or skin sensitization : Based on available data, the classification criteria are not met.  
 Germ cell mutagenicity : Based on available data, the classification criteria are not met.  
 Carcinogenicity : Based on available data, the classification criteria are not met.

Silica, amorphous, fumed, crystalline-free (112945-52-5)	
IARC group	3 - Not classifiable (listed under amorphous silica)

Reproductive toxicity : Based on available data, the classification criteria are not met.  
 Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.  
 Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met.  
 Aspiration hazard : Based on available data, the classification criteria are not met.  
 Symptoms/injuries after inhalation : May cause respiratory tract irritation.  
 Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.  
 Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.  
 Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. TOXICITY**

Ecology - general : May cause long-term adverse effects in the aquatic environment.

**12.2. PERSISTENCE AND DEGRADABILITY**

Pyrogel 100	
Persistence and degradability	Not established.

**12.3. BIOACCUMULATIVE POTENTIAL**

Pyrogel 100	
Bioaccumulative potential	Not established.

**12.4. MOBILITY IN SOIL**

No additional information available.

**12.5. OTHER ADVERSE EFFECTS**

Effect on the global warming : No known ecological damage caused by this product.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. WASTE TREATMENT METHODS**

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

**SECTION 14: TRANSPORT INFORMATION**

In accordance with DOT/TDG/IATA/IMDG

DOT (bulk) : Not regulated  
 DOT (non-bulk) : Not regulated

TDG : Not regulated  
 IATA : Not regulated  
 IMDG : Not regulated

**ADDITIONAL INFORMATION**

Other information : No supplementary information available.  
 Special transport precautions : Do not handle until all safety precautions have been read and understood.

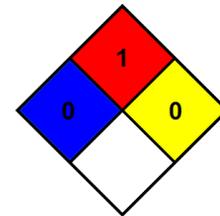
**SECTION 15: REGULATORY INFORMATION**

**15.1. FEDERAL REGULATIONS**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

NFPA health hazard : 0  
 NFPA fire hazard : 1  
 NFPA reactivity : 0



**15.3. US STATE REGULATIONS**

**Pyrogel 100**

State or local regulations	This product contains a chemical known to the State of California to cause birth defects or other reproductive harm
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**SECTION 16: OTHER INFORMATION**

Date of issue : 04/15/2016  
 Revision date : 06/23/2022  
 Other information : None.

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