



## MATERIAL SAFETY DATA SHEET

### MAGFILM – FLEXIBLE MAGNETIC FILM

#### 1. COMPANY and PRODUCT IDENTIFICATION

Company name: Tre Emme S.p.A.

Address: Via dell'Artigianato, 22 62020 Sant'Angelo in Pontano (MC) Italy

Telephone: +39 0733 663334

Product: GEKO MAGNET

Chemical Name: Synthetic Rubber Bonded Strontium Ferrite Power

#### 2. COMPOSITION/INFORMATION on COMPONENTS

	percentage by weight			ACGIH**	OSHA**		
Component	Min.	Max.	CAS Number	TLV-TWA	PEL-TWA	OTETHERS	
<i>Strontium Ferrite</i>	85	95					
<i>Chlorinated Polyethylene</i>	5	15					
<i>Carbon Tetrachloride</i>	ND		56-23-5	5ppm (TWA)	10ppm(TWA)	2ppm	NIOSH
				10ppm( )	200ppm ( )		
<i>Chloroform</i>	ND		67-66-3	10ppm( )	50ppm	2ppm	NIOSH
<i>Barium</i>			7440-39-3	0,5mg/m3	0,5mg/m3	0,5mg/m3	NIOSH

\* Note: Not all magnetic products, contain  
this material

\*\* C-Ceiling D-Dust F-Fumes M-mist m-Max N-NIOSH R-Respirable Dust ST/STEL-Short Term

Exposure Limit

T-Total Dust t-Typical TS-Trade

Secret V-Vapor

#### 3. HAZARDS IDENTIFICATION

##### Emergency Overview

Appearance: Brown-Black Sheets, or strips

Odor: Odorless

Flammability: Ignited by extreme heat or open flame

Environmental: Environmentally non-hazardous

##### Potential Health Effects

Eye Contact: Small pieces of material cut or chipped from stock may scratch eye surface and become a source of mechanical irritation.

Skin Contact: Non-hazardous in normal use. May cause skin irritation in some sensitive people.



Inhalation: Non--hazardous in normal use. Not a probable route of entry.

Ingestion: Non--hazardous in normal use. Not a probable route of entry.

Carcinogenicity: The following components are listed by IARC,TNP,OSHA,and ACGIH as(suspected)

Carcinogens:

Component	IARC	NTP	OSHA	ACGIH
<i>Carbon Tetrachloride</i>	X	X		X
<i>Chloroform</i>	X	X		

#### 4. FIRST AID MEASURES

Eyes Contact: Flush with tepid water for at least 20 minutes holding the eyelids wide open Seek medical attention if irritation develops.

Skin Contact: If irritation occurs, remove material from skin and wash affected area with soap and water, if irritation persists, seek medical attention.

Inhalation: Non--hazardous in normal use. Not a probable route of entry.

Ingestion: Not expected to be an important route of entry into the body. Ingestion of large amounts of dusts or particulate matter may cause gastrointestinal distress. Seek medical attention.

#### 5. FIRE FIGHTING MEASURES

Flashpoint	N/A			
Fire and Explosion Hazards	LEL: N/A			
	UEL:N/A			
	Solid material may bum at or above flashpoint temperature Material may emit acrid toxic fumes and/or smoke			
Fire Fighting	N/A			
Extinguishing Media	Use water, dry chemical, or carbon dioxide to extinguish fires involving the product. Product in or near fires should be cooled with a water spray or fog if compatible with the other materials involved in the fire.			
NFPA Rating	Health	Fire	Reactivity	Specific
	1	1	0	

Hazard Rating: 0-insignificant, 1-Slight, 2-Moderate, 3-High, 4-Extreme

#### 6. ACCIDENTAL RELEASE MEASURES

N/A



## 7. HANDLING AND STORAGE

Handling: Use proper handling equipment and procedures that conform to OSHA regulations.

Storage: Store product at ambient temperatures out of contact with the elements. Keep from contact with strong mineral acids and oxidizers. Dusts and/or particulate matter that may be generated during handling or processing should be cleaned up by vacuuming or wet mopping.

Electrostatic Accumulation Hazard: Use proper bonding and/or grounding procedures to discharge any accumulation of static electricity

## 8. EXPOSURE CONTROL /PERSONAL PROTECTION

Exposure Controls: No additional ventilation beyond standard plant settings are required for processing the magnetic materials.

Personal Protection: Safety glassed with side shield are recommended for processes requiring the cutting of the magnetic materials. Cloth rubber, or plastic gloves are recommended during handling to prevent possible skin irritation.

### Workplace Exposure Guideline

**OSHA 29CFR1970.1000:** Observe the OSHA Permissible Exposure Limit of 5mg/m<sup>3</sup> for dust and fumes

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown-Black Sheets, or strips

Odorless: Odorless

Density: 3.5-3.7g/cc

Solubility in Water: Insoluble in water

% Volatiles: Not Volatile

Melt Point: ND

Boiling Point: NA

## 10. STABILITY AND REACTIVITY

Stability: Stable at normal storing and processing conditions.

Conditions to Avoid: Avoid contact with strong mineral acids and oxidizing agents.

Decomposition: Decomposition products include CO,CO<sub>2</sub>,HCl,hydrocarbon oxidation products include organic acids, aldehydes, and alcohols.

Polymerization: Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

Animal: oral Id50: N/E

Dermal LD50: N/E

Inhalation: N/E

## 12. ECOLOGICAL INFORMATION

No specific ecological data is available for this product.

## 13. DISPOSAL CONSIDERATION

Waste Disposal: The product is not considered hazardous. The product may be disposed of in an approved landfill or recycled if practical.



#### 14. TRANSPORTATION INFORMATION

Shipping Information: This product is not regulated by the Department of Transportation.

#### 15. REGULATORY INFORMATION

US Federal Regulations: The components of this product are included in the US EPA toxic Substance Control Act (TSCA) Chemical Substance Inventory and the Canadian Domestic Substance List.

CERCLA: In case of an accidental spill, this product is not required to be reported under the Comprehensive Environmental Response, Compensation, and Liability Act.

SARA Title III: Under the provisions of Title III. Section 311/312 of the superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories:  
Non-Hazardous

Section 313 reportable ingredients	
Material	Percent by Weight
<i>Carbon Tetrachloride</i>	$<0.75\text{ppm}$
<i>Chloroform</i>	$<0.05$
<i>Barium</i>	$<0.5\text{mg}/\text{m}^3 (<0.001)$

Note: Not all magnetic products  $<1.0\text{MG0e}$  contain this material.

#### 16. OTHER INFORMATION

This MSDS documents is to the best of Tre Emme S.p.A's knowledge, reliable and accurate. However, it is provided to you without representation or warranty, expressed or implied, regarding accuracy or correctness.

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