

Issue date: 6/10/2023

Revised: 6/10/2023

Page: 1/4

**1. Material and company name**

Product	BREMSKERL 8048
Intended use	Friction material
Producer/Supplier	BREMSKERL CV, LLC 1291 Humbracht Circle Bartlett, IL 60103
Telephone	(847) 309-6141
E-Mail-Address	<a href="mailto:tech@bremskerlcv.com">tech@bremskerlcv.com</a>
Contact	Technical department

**2. Possible hazards**

When correctly handled no hazards for people and environment are known so far. When mechanically treated however (grinding, drilling for example), ingredients with hazardous properties (see table point 3) could be released.

**3. Composition/ information on ingredients****Chemical characterisation**

The friction material contains different inorganic and organic compounds, which are bonded in a system of cured binding agents and fibres.

**Hazardous ingredients**

Chemical characterization	EU-No.	REACH-No.	CAS-No.	Concentration	Classification
Antimony trisulfide			1345-04-6	0 - 3	Dangerous for the environment (N), Harmful (Xn)
Graphite			7782-42-5	5 – 10	
Copper			7440-50-8	0 - 2	Dangerous for the environment (N),

**Additional information**

No hazardous product in the sense of the EU- guidelines

**4. First-aid measures**

Inhalation	After the inhalation of major amounts of dust move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Skin	Wash skin with soap and water.
Eyes	Rinse eyes with plenty of water while lifting the eye lid.
Ingestion	After the ingestion of major amounts of dust rinse mouth thoroughly with plenty of water. Get medical attention if

Issue date: 6/10/2023

Revised: 6/10/2023

Page: 2/4

irritation persists after washing.

## 5. Fire-fighting measures

Suitable extinguishing agents	Foam, water, carbon dioxide and ABC-powder
Not suitable extinguishing agents	none
Particular hazard by the friction material, its combustion products or emerging gases	See chapter / item 10.3
Special protective equipment	Oxygen respirator

## 6. Accidental release measures

Personal safety precautions	See chapter / item 8
Measures for the protection of the environment	Not applicable
Method for cleaning	Not applicable

## 7. Handling and Storage

7.1 Handling	Avoid the generation of dust. If mechanically processed, provide local dust extraction. Do not use brushes, pressure air or other hazardous agents to clean the brake/brake pads. The use of a vacuum cleaner is recommended.
7.2 Storage	Store in a dry room at room temperature. Do not store together with acids and bases.
7.3 Identified uses	Not applicable

## 8. Exposure controls/ personal protection

### 8.1 Exposition limits

Name	CAS-No.	Type	Value	Unit
Antimony trisulfide	1345-04-6	ACGIH-TWA	0.5	mg/m <sup>3</sup> as As
Graphite	7782-42-5	ACGIH 2008	2	mg/m <sup>3</sup> (respirable fraction)

### 8.2 Limitation and control of the exposition

Respiratory protection	Respiratory protection type FFP2 to be used*.
Hand protection	The use of dustproof gloves is recommended*.

Issue date: 6/10/2023

Revised: 6/10/2023

Page: 3/4

Eye protection	The wear of approved safety goggles is recommended*.
Body protection	The wear of dustproof clothing is recommended*.
General protection- and hygiene measures	Do not eat, drink or smoke while working. Wash promptly with soap and water if skin becomes contaminated.

\*advised for any machining such as cutting or drilling tools

## 9. Physical and chemical properties

### 9.1 Characteristics

State	Solid
Colour	Dark grey
Odour	Specific

### 9.2 Health, safety and environmental information:

Density	2.4 – 2.8 g/cm <sup>3</sup>
Solubility in water	Practically insoluble

### 9.3 Other information

None

### 9.4 Comments

None

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## 10. Stability and reactivity

10.1 Critical conditions	none
10.2 Materials to avoid	Store away from acids, bases and organic solvents
10.3 Hazardous decomposition products	At long-term strain with temperatures > 250 °C - depending on reaction conditions- carbon monoxide, aromatic and aliphatic hydrocarbons and traces of other gases can be released in changeable composition.

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## 11. Toxicological information

Acute toxicity	Not applicable
Primary risks	Not applicable
Sensitisation	Not applicable
Toxicity at repeated ingestion	Not applicable
CMR effects	Not applicable
Practical experience	Not applicable
Other information	prolonged skin contact may cause irritation

Issue date: 6/10/2023

Revised: 6/10/2023

Page: 4/4

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## 12. Ecological information

Eco-toxicity	Not applicable
Mobility	Not applicable
Persistency and degradability	Not applicable
Bioaccumulation	Not applicable
Result of the evaluation of the PBT properties	Not applicable
Other hazardous effects	Not applicable
Further details	Not applicable

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## 13. Disposal considerations

Recommendation	Disposal according to authority requirements
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## 14. Transport information

Not classified for national and international transportation.

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## 15. Regulatory information

Material safety rating	Not applicable
Labelling	No duty to label
Additional EU-regulations	none
National regulations	none

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## 16. Other information

The information provided on this data sheet was abstracted from a supplier MSDS and standard references in occupational health and toxicology. Bremskerl makes no representation or warranty with respect to the information obtained from such references. The information provided is, however, as of the date below, true and accurate to the best of Bremskerl's knowledge.