

## 1. Identification of the substance/mixture and of the company/undertaking

Product identifier	<b>2014T</b>
Use of the substance/mix	Friction material
Supplier of the safety data sheet :	TMD Friction Services GmbH Schlebuscher Str. 99 D-51381 Leverkusen
Further information obtainable from:	<a href="mailto:msds@tmdfriction.com">msds@tmdfriction.com</a>
Emergency telephone number:	+49-228-19 240 (Informationszentrale gegen Vergiftungen)

## 2. Hazards Identification

As an article the product does not need to be labelled

in accordance with EC-directives.

## 3. Composition/information on ingredients

### Chemical characterization

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

<i>Dangerous components:</i>		
CAS: 1345-04-6 EINECS: 215-713-4	antimony sulphide ⚠ Carc. 2, H351; Aquatic Chronic 3, H412	2,5-10%
CAS: 7440-50-8 EINECS: 231-159-6	copper ⚠ Aquatic Acute 1, H400	2,5-10%
	NBR-Rubber Aquatic Chronic 3, H412	2,5-10%
CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9	zinc powder -zinc dust (stabilized) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤ 2,5%
CAS: 68602-89-1	Friction Dust ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	≤ 2,5%

### Additional Information:

For the wording of the listed risk phrases refer to section 16.

## 4. First aid measures

After inhalation	Supply fresh air; consult doctor in case of complaints.
After skin contact	Wash with water and soap as a precaution.
After eye contact	Rinse opened eye for several minutes under running water.
After swallowing:	If symptoms persist consult doctor.

**5. Firefighting measures** Suitable extinguishing agents CO<sub>2</sub>, powder or water spray.

Fight larger fires with water

Use fire extinguishing methods suitable to surrounding conditions

Advice for firefighters

Wear self-contained respiratory protective device.

**6. Accidental release measures**

Personal precautions, protective equipment and emergency procedures

No special measures required

Environmental precautions

No special environmental precautions required

Methods and material for containment and cleaning up

Pick up mechanically.

**7. Handling and storage**

7.1 Precautions for safe handling

Avoid the formation of dust.  
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.  
- Do not use brushes, pressure air or other hazardous agents to clean the brake. The use of a vacuum cleaner is recommended.

7.2 Storage

Keep in a dry place.  
Recommended storage temperature: room temperature.

7.3 Specific end use(s)

No further relevant information available

**8. Exposure controls/personal protection**

**8.1 Exposure limits**

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**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**8.2 Exposure controls / Personal protective equipment**

Respiratory protection

Suitable respiratory protective device recommended  
Dust mask FFP2

Hand protection

Protective-gloves (dust-resistant)\*

Eye protection

Safety goggles with side protection.\*

Skin protection

Dust resistant protective clothing.\*

<b>Protective and hygiene measures</b>	Do not breathe dust. Wash hands before breaks and at the end of workday . When using, do not eat, drink or smoke. Handle in accordance with the general hygienic rules.
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\* recommended for mechanical processing

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	solid
<b>Colour</b>	grey
<b>Odour</b>	characteristic

### Changes in the physical state

<b>Flash point</b>	n.a. n.a.
<b>Lower explosion limits:</b>	n.a. n.a.
<b>Upper explosion limits:</b>	insoluble
<b>Ignition temperature:</b>	
<b>Water solubility:</b> (at 20 °C)	

## 10. Stability and reactivity

<b>Reactivity</b>	No decomposition if stored and applied as directed.
<b>Chemical stability</b>	Stable under normal conditions
<b>Hazardous decomposition products</b>	Long-term exposures at temperatures > 300 °C can lead, depending on reaction conditions, to the release of carbon monoxide, aromatic and aliphatic hydrocarbons and traces of other gases in variable composition.

## 11. Toxicological information **Acute toxicity** No toxicological

data available.

<b>Sensitizing effects</b>	Repeated contact may cause allergic reactions with very susceptible persons.
<b>Carcinogenicity/Mutagenicity</b>	Carc. 2  (see: <a href="http://www.antimony.com/en/detail_antimony-trisulfide-compounds_34.aspx">http://www.antimony.com/en/detail_antimony-trisulfide-compounds_34.aspx</a> )
<b>Reproductive toxicity</b>	Not classified
<b>Empirical data on effects on humans</b>	Inhalation of major quantities of dusts may cause cough and difficulties in breathing . Dust particles, like other inert materials, are mechanically irritating the eyes. Prolonged skin contact may cause mechanical irritation.
<b>Further Information</b>	If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

## 12. Ecological Information

### Toxicity

Aquatic toxicity	No further relevant information available.
Mobility in soil	No further relevant information available
Persistence and degradability	No further relevant information available
Bioaccumulative potential	No further relevant information available
Ecotoxicological effects	Harmful to fish
Additional ecological information	No further relevant information available

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## 13. Disposal considerations Advice on disposal Disposal in accordance with

local regulations.

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## 14. Transport information No hazardous material as

defined by the transport regulations..

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## 15. Regulatory information Chemical safety assesment A Chemical Safety Assessment

has not been carried out.

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## 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

- H315** Causes skin irritation.
- H317** May cause an allergic skin reaction.
- H319** Causes serious eye irritation.
- H335** May cause respiratory irritation.
- H351** Suspected of causing cancer.
- H400** Very toxic to aquatic life.
- H410** Very toxic to aquatic life with long lasting effects.
- H412** Harmful to aquatic life with long lasting effects.