

# 上海罗凯姆实业有限公司

## Safety Data Sheet TBMC

Version 1.1

Revision date: 12/7/2017

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

#### 1.1 Product identifier:

Identification on the label/Trade name: TBMC  
Additional identification: 4, 4'-Thio-bis (3-methyl-6 tert-butylphenol)  
Identification of the product: CAS#96-69-5; EC#202-525-2

#### 1.2 Relevant identified uses of the substance and uses advised against:

##### 1.2.1 Identified uses:

Used as rubber antioxidant.

##### 1.2.2 Uses advised against:

Not available.

#### 1.3 Details of the supplier of the safety data sheet:

Supplier(Manufacturer): Shanghai Rokem Industrial Co., Ltd  
Address: 9D, Double Dove Great Tower, 438, Pudian Road. Shanghai, 200122, P.R.CHINA  
Contact person(E-mail):  
Telephone: +86-21-50812951  
Fax: +86-21-58818728

#### 1.4 Emergency telephone Number:

+353 41 980 6916

Available outside office hours? YES  NO

### 2 Hazards Identification

#### 2.1 Classification of the substance

##### 2.1.1 Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Not Classified	

For full text of H- phrases: see section 2.2.

67/548/EEC	
Hazards characteristics	R-Phrases

For full text of R- phrases: see section 16.

##### 2.1.2 The most important adverse effects

###### 2.1.2.1 The most important adverse physicochemical effects:

Not applicable.

###### 2.1.2.2 The most important adverse human health effects:

Not applicable.

###### 2.1.2.3 The most important adverse environmental effects:

Not applicable.

#### 2.2 label elements

Hazard Pictograms:

Signal Word(S):

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**Hazard Statement:**

**Precautionary Statement:**

**2.3 Other hazards**

Not available (PBT, vPvB, Substance is an endocrine disruptor etc.)

**3 Composition/information on ingredients**

**Substance/Mixture:** Substance

**Ingredient(s):**

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
4, 4'-Thio-bis (3-methyl-6 tert-butylphenol)	N/A	96-69-5	202-525-2	99%

**4 First aid measures**

**4.1 Description of first aid measures:**

In all cases of doubt, or when symptoms persist, seek medical attention.

**4.1.1 In case of inhalation:**

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**4.1.2 In case of skin contact:**

In case of contact, Wash off with soap and plenty of water.

**4.1.3 In case of eyes contact:**

Flush eyes with water as a precaution. Flush immediately with water for at least 15 minutes. Seek medical attention.

**4.1.4 In case of ingestion:**

Rinse mouth. Never induce vomiting in unconscious or confused persons. Always seek medical advice.

**4.2 Most important symptoms and effects, both acute and delayed**

May cause an allergic skin reaction.

**4.3 Indication of any immediate medical attention and special treatment needed**

If skin irritation or rash occurs, get medical advice/attention.

**5 Fire-Fighting measures**

**5.1 Extinguishing media:**

**Suitable extinguishing media:** Carbon dioxide, appropriate foam or dry chemical, water spray.

**5.2 Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**5.3 Advice for fire-fighters:**

Firefighters must wear fire resistant protective equipment. Wear self contained breathing apparatus and protective gloves.

**6 Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

**6.1.1 For non-emergency personnel:**

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Remove ignition sources. Provide adequate ventilation. Avoid inhalation of vapor or dust. Avoid skin and eye contact. Wear protective gloves/protective clothing/eye protection/face protection.

### 6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

### 6.2 Environmental Precautions:

No special environmental precautions required.

### 6.3 Methods for Containment and Cleaning up:

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Clean up affected area.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### 6.5 Additional information:

Wet clean or vacuum up solids.

## 7 Handling and storage

### 7.1 Precautions for safe handling:

#### 7.1.1 Protective measures:

Do not breathe dusts/vapor. Handle in well ventilated areas. Eliminate all sources of ignition, and do not generate flames or sparks. Take precautionary measures against static discharges.

#### 7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep in properly labeled containers. Use appropriate containment to avoid environmental contamination. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with local regulations.

### 7.3 Specific end use(s):

Not applicable.

## 8 Exposure control/personal protection

### 8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available..

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.

#### 8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection           Wear appropriate goggles to prevent eye exposure.

Hand protection               Wear appropriate gloves to prevent skin exposure.

Body protection               Wear suitable protective clothing to prevent skin exposure.

Respiratory protection       Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards               Wear suitable protective clothing to prevent heat.

#### 8.2.3 Environmental exposure controls:

Avoid discharge into the environment. This material and its container must be disposed of as hazardous waste.

According to local regulations, Federal and official regulations.

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### 9 Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance:	White solid
Colour:	White
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	160 - 164 °C
Boiling point/range (°C) :	Not available
Flash point (°C) :	215 °C
Evaporation rate:	Not available
Flammability (solid, gas);	Not available
Ignition temperature (°C) :	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C) :	Not applicable
Vapour density:	Not applicable
Water solubility :	<0.01g/100ml at 18 °C
n-Octanol/Water (log Po/w) :	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa s) :	Not determined
Explosive properties:	Not explosive.
Oxidising properties:	Not oxidizing

#### 9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water( pKa):	Not available
Oxidation-reduction Potential:	Not available

### 10 Stability and reactivity

#### 10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

#### 10.2 Chemical stability:

Under normal conditions, the product is stable. No hazardous reaction when handled and stored according to provisions. Hazardous reactions are not known.

#### 10.3 Possibility of hazardous reactions:

Under normal conditions, not hazardous reactions will occur.

#### 10.4 Conditions to avoid:

Heat, flames and sparks

#### 10.5 Incompatible materials:

Strong oxidizing agents..

#### 10.6 Hazardous decomposition products:

Thermal decomposition products: carbon oxides (CO,CO2),

### 11 Toxicological information

#### 11.1 Toxicokinetics, metabolism and distribution

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<b>Non-human toxicological data:</b>	Not available						
<b>Method:</b>	Not available						
<b>Dosis:</b>	Not available						
<b>Routes of administration:</b>	Not available						
<b>Results:</b>	Not available						
<b>Absorption:</b>	Not available						
<b>Distribution:</b>	Not available						
<b>Metabolism:</b>	Not available						
<b>Excretion:</b>	Not available						
<b>11.2 Information on toxicological effects</b>							
<b>Acute toxicity:</b>							
	LD50( Oral, Rat):	2345 mg/kg					
	LD50(Oral , mouse):	Not available					
	<b>Skin corrosion/irritation:</b>	Not applicable.					
	<b>Serious eye damage/irritation:</b>	Not applicable.					
	<b>Respiratory or skin sensitization:</b>	Not applicable.					
	<b>Germ cell mutagenicity:</b>	Not applicable.					
	<b>Carcinogenicity:</b>	Not applicable.					
	<b>reproductive toxicity:</b>	Not classified					
	<b>STOT- single exposure:</b>	Not classified					
	<b>STOT-repeated exposure:</b>	Not classified					
	<b>Aspiration hazard:</b>	Not classified					
<b>12 Ecological information</b>							
<b>Toxicity:</b>							
	<b>Acute toxicity</b>		<b>Time</b>	<b>Species</b>	<b>Method</b>	<b>Evaluation</b>	<b>Remarks</b>
	LC50	> 2.7 mg/l	96h	Fish	OECD 203	N/A	N/A
	EC50	> 0.005 mg/l	48h	Aquatic invertebrates	OECD 202	N/A	N/A
	EC50	> 0.87 mg/l	72h	Algae/aquatic plants	OECD 202	N/A	N/A
	<b>Persistence and degradability:</b>		Not readily biodegradable.				
	<b>Bioaccumulative potential:</b>		Not applicable.				
	<b>Mobility in soil:</b>		Not available.				
	<b>Results of PBT&amp;vPvB assessment:</b>		Not available.				
	<b>Other adverse effects:</b>		Not applicable.				

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### 13 Disposal considerations

#### 13.1 Waste treatment methods

Avoid discharge into the environment. This material and its container must be disposed of as hazardous waste. According to local regulations, Federal and official regulations.

#### 13.2 Product / Packaging disposal:

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations. .

### 14 Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	NO	NO	NO
UN Proper shipping name:	NO	NO	NO
Transport hazard Class:	NO	NO	NO
Packaging group:	/	/	/
Environmental hazards:	/	/	/
Special precautions for user:	/	/	/

### 15 Regulation information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant information regarding authorization:

Not applicable.

Relevant information regarding restriction:

Not applicable.

Other EU regulations:

Employment restrictions concerning young person must be observed.  
For use only by technically qualified individuals.

Other National regulations:

Not applicable

Chemical Safety Assessment has been carried out?

YES

NO

### 16 Other information

#### 16.1 Indication of changes

Version 1.1 Amended by EU No 453/2010

#### 16.2 Relevant R- phrases (number and full text):

Not applicable.

#### 16.3 Training instructions:

Not applicable.

#### 16.4 Further information:

The information provided in this Material Safety Data Sheet is based upon the present state of our knowledge. This MSDS has been compiled and is solely intended for this product.

#### 16.5 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.