

# Safety Data Sheet

## TBBS OILED POWDER

ROKEM

Version 1.3

Revision date: 8/19/2023

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

#### **1.1 Product identifier:**

Identification on the label/Trade name: TBBS, OILED POWDER  
Additional identification: N-Tertiary Butyl-2-Benzothiazole Sulfenamide  
Identification of the product: CAS#95-31-8; EC#202-409-1  
Index Number: Not available  
REACH pre-registration No.: 17-2119870605-33-0000

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

##### **1.2.1 Identified uses:**

Used as rubber accelerator.

##### **1.2.2 Uses advised against:**

Not available.

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

Supplier(Only representative): REACH COMPLIANCE SERVICES LIMITED  
Suite 1E, Paramount Court, Corrig Road, Sandyford, Dublin 18,  
Ireland  
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:**

Tel: +353 1 8899 951

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:

<b>REGULATION (EC) No 1272/2008</b>	
Hazard classes/Hazard categories	Hazard statement
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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

<b>67/548/EEC</b>	
Hazards characteristics	R-Phrases
Xn	R43
N	R50/53

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.

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

May cause an allergic skin reaction.

### 2.1.2.3 The most important adverse environmental effects:

Very toxic to aquatic life with long lasting effects.

## 2.2 label elements

### Hazard Pictograms:



### Signal Word(S):

Warning

### Hazard Statement:

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

### Precautionary Statement:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P501 Dispose of contents/container to local regulations.

## 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
N-tert-butyl-2-benzothiazole sulfenamide	N/A	95-31-8	202-409-1	≥97%
White mineral oil (petroleum) highly refined	N/A	8042-47-5	232-455-8	1-3%

## 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, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

#### 4.1.3 In case of eyes contact:

Remove contact lenses. Hold eyelids apart. Flush immediately with water for at least 15 minutes. Seek medical attention.

#### 4.1.4 In case of ingestion:

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Rinse mouth. Give water to drink. Induce vomiting. 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, water mist.

**Unsuitable extinguishing media:** Water jet.

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

Emits toxic fumes under fire conditions: Carbon monoxide (CO), Sulfur oxides (SOx), nitrous gases (NOx).

### **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:**

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:**

Avoid disposing into drainage/sewer system or directly into the aquatic environment. Keeping away from drains, surface-and ground-water and soil.

### **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.

Don't use a brush or compressed air for cleaning surfaces or clothing.

Clear spills immediately.

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### **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:**

Requirements for storage rooms and vessels. Keep in original packaging, tightly closed. Advice on storage assembly. Do not store together with foodstuffs. Do not store together with: Acids and Bases.

Further information on storage conditions: Keep container tightly closed and dry in a cool, well-ventilated place.

#### **7.3 Specific end use(s):**

Not applicable.

### **8 Exposure control/personal protection**

#### **8.1 Control parameters:**

**8.1.1 Occupational exposure limits:** WEL-TWA: 4 mg/m<sup>3</sup> (respirable dust)

OES-TWA: 10.0 mg/m<sup>3</sup> (inhalable dust) OES-TWA: 4.0 mg/m<sup>3</sup>(respirable dust).

**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.

### **9 Physical and chemical properties**

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

Appearance:	Powder or granular
Colour:	Pain white
Odour:	Slight inherent odor
Odour threshold:	Not available
pH:	Not determined
Melting point/range (°C):	~105 °c
Boiling point/range (°C) :	Not determined
Flash point (°C) :	Approx. 165 °c
Evaporation rate:	Not determined

Flammability (solid, gas);           Not flammable

Ignition temperature (°C) :       Approx. 340 - 380 °C

Upper/lower flammability/explosive limits:   Not determined

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Vapour pressure (20°C) :	Negligible at room temperatures
Vapour density:	Not applicable
Relative Density:	Approx. 1.3 g/cm <sup>3</sup> (20 °C)
Bulk density (kg/m <sup>3</sup> ) :	Not determined
Water solubility (g/l) :	0.00032 kg/m <sup>3</sup> (25 °C)
n-Octanol/Water (log Po/w) :	Log pow = 4.38
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa s) :	Not determined
Explosive properties:	Lower:10-20 g/m <sup>3</sup>
Oxidising properties:	Not applicable

### 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:

Heating > 100 °C: May catch fire.

### 10.5 Incompatible materials:

No specific recommendations.

### 10.6 Hazardous decomposition products:

Thermal decomposition products: carbon monoxide (CO), nitrous gases (NOx), Sulfur oxides (SOx).

## 11 Toxicological information

### 11.1 Toxicokinetics, metabolism and distribution

**Non-human toxicological data:** Not available

**Method:** Not available

**Dosis:** Not available

**Routes of administration:** Not available

**Results:** Not available

**Absorption:** Not available

**Distribution:** Not available

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**Metabolism:** Not available**Excretion:** Not available**11.2 Information on toxicological effects****Acute toxicity:**

LD50( Oral, Rat): 5000 mg/kg

LD50(Dermal Rabbit): &gt;7940 mg/kg

LD50(Inhalation, Rat): Not available

**Skin corrosion/irritation:** Not applicable.**Serious eye damage/irritation:** Not applicable.**Respiratory or skin sensitization:** May cause an allergic skin reaction.**Germ cell mutagenicity:** Not classified**Carcinogenicity:** Not classified**reproductive toxicity:** Not classified**STOT- single exposure:** Not classified**STOT-repeated exposure:** Not classified**Aspiration hazard:** Not classified**12 Ecological information****Toxicity:**

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	1.2 mg/l	96h	Fish	OECD 203	N/A	N/A
EC50	>100 mg/l	48h	Daphnia	OECD 202	N/A	N/A
LC50	N/A	96h	Algae	OECD 201	N/A	N/A

**Persistence and degradability:** Not readily biodegradable.**Bioaccumulative potential:** Not applicable.**Mobility in soil:** Not available.**Results of PBT&vPvB assessment:** Not available.**Other adverse effects:** Not applicable.**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)
<b>UN-Number:</b>	UN3077	UN3077	UN3077
<b>UN Proper shipping name:</b>	Environmentally hazardous substance, solid, n.o.s. (TBBS)	Environmentally hazardous substance, solid, n.o.s. (TBBS)	Environmentally hazardous substance, solid, n.o.s. (TBBS)
<b>Transport hazard Class:</b>	9	9	9

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<b>Packaging group:</b>	III	III	III
<b>Environmental hazards:</b>	Environmentally hazardous substances	Environmentally hazardous substances	Environmentally hazardous substances
<b>Special precautions for user:</b>	See section 2.2	See section 2.2	See section 2.2
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	IBC 08	IBC 08	IBC 08

### 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):**

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **16.3 Training instructions:**

Not applicable.

#### **16.4 Further information:**

This information is based upon the present state of our knowledge. This SDS 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.