

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product label name** N-tert-Butyl-2-benzothiazolesulfenamide  
**Supplier** Henan Kailun Chemical Co.,Ltd  
Lijiang East Rd.Huaxian Industrial Agglomeration Area.Henan China.  
**Emergency telephone** 0086-18567812865

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Information on hazardous ingredients

**Chemical description** N-tert-Butyl-2-benzothiazolesulfenamide

### Composition / information on ingredients

EC-number	CAS-number	Chemical name
202-409-1	95-31-8	N-tert-Butyl-2-benzothiazolesulfenamide

**Other information** **Formula:** C11H14N2S2.

## 3. HAZARDS IDENTIFICATION

May cause sensitization by skin contact.

May cause long-term adverse effects in the aquatic environment.

## 4. FIRST AID MEASURES

**Symptoms and effects** Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Repeated contact may cause skin sensitization.

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

**General** Move to fresh air. If symptoms persist, seek medical advice.

**Inhalation** Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops. Launder clothes before reuse.

**Skin** Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

**Eye** Rinse mouth, give water to drink.

**Ingestion** No specific recommendations.

**Advice to physician**

waterspray, water mist, foam, dry chemical powder, CO2

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

**Unsuitable extinguishing media** waterjet.

**Special exposure hazards** Emits toxic fumes under fire conditions.

**Hazardous decomposition/** carbon monoxide (CO), Sulfur oxides (SOx), nitrous gases (NOx).

**combustion products**

**Protective equipment** Wear self contained breathing apparatus.

**Other information** Do not allow run-off from fire fighting to enter drains or water courses.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** For personal protection see Section 8.

**Environmental precautions** Avoid discharge into the environment.

**Methods for cleaning up** Collect as much as possible in a clean container for (preferable) reuse or disposal.

## 7. HANDLING AND STORAGE

**Handling** Avoid contact with skin. Avoid dust generation.

**Fire and explosion prevention** Take precautionary measures against static discharges.

Avoid dust accumulation.

Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition.

Kst: 171 - 273 bar.m/s.

Maximum corrected explosion pressure: 7.9 - 8.5 bar.

**Storage requirements** Store in a dry and cool place

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**Personal protection**

**Respiratory** Avoid breathing dust. In case of dust formation use dust mask.

**Hand** Wear protective glove

**Skin and body** Wear suitable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dedusted powder; powder
<b>Colour</b>	cream
<b>Odour</b>	faint amine like, aromatic
<b>Boiling point/range</b>	not determined
<b>Melting point/range</b>	109 °C

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage and handling conditions (see section 7).
<b>Conditions to avoid</b>	Heating > 100 °C: May catch fire.
<b>Materials to avoid</b>	No specific recommendations.
<b>Hazardous decomposition products</b>	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NO <sub>x</sub> ), Sulfur oxides (SO <sub>x</sub> ).

## 11. TOXICOLOGICAL INFORMATION

<b>Name</b>	N-tert-Butyl-2-benzothiazolesulfenamide
<b>Irritation</b>	
<b>Skin</b>	Slightly irritating to skin but not sufficient for classification.
<b>Eye</b>	Slightly irritating to eyes but not sufficient for classification.
<b>Sensitization</b>	Patch testing ( Human experience ): Sensitizing ( skin ).

## 12. ECOLOGICAL INFORMATION

No experimental ecological data are available on the substance as such

## 13. DISPOSAL CONSIDERATIONS

<b>Product</b>	According to local regulations ( most probably controlled incineration ).
<b>Contaminated packaging</b>	According to local regulations.

## 14. TRANSPORT INFORMATION

### *Land transport*

Not dangerous goods according to national and international transport regulations

### *Sea transport*

Not dangerous goods according to national and international transport regulations

### *Air transport*

Not dangerous goods according to national and international transport regulations

## 15. REGULATORY INFORMATION

<b>Chemical description</b>	N-tert-Butyl-2-benzothiazolesulfenamide
<b>Symbol(s)</b>	IRRITANT (Xi)
<b>R(isk) phrase(s)</b>	May cause sensitization by skin contact May cause long-term adverse effects in the aquatic environment
<b>S(afety) phrase(s)</b>	Do not breathe dust Avoid contact with skin Wear suitable gloves Avoid release to the environment. Refer to special instructions/Safety data sheets

## 16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.