

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.

Skin Seek medical advice if irritation develops. Launder clothes before reuse.

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

Ingestion Rinse mouth, give water to drink.

Advice to physician No specific recommendations.

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/combustion products carbon monoxide (CO), Sulfur oxides (SO_x), nitrous gases (NO_x).

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

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

No experimental ecological data are available on the substance as such

13. DISPOSAL CONSIDERATIONS

| | |
|------------------------|---|
| Product | According to local regulations (most probably controlled incineration). |
| Contaminated packaging | 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

| | |
|----------------------|--|
| Chemical description | N-tert-Butyl-2-benzothiazolesulfenamide |
| Symbol(s) | IRRITANT (Xi) |
| R(isk) phrase(s) | May cause sensitization by skin contact May cause long-term adverse effects in the aquatic environment |
| S(afety) phrase(s) | 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.