

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

Other information

Wear self contained breathing apparatus.

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.