

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: S-BENZYLTHIURONIUM CHLORIDE

CAS#: 538-28-3

Synonym:

Not available.

Chemical Name: Not available.

Chemical Formula: C₈H₁₀N₂S.HCl

Composition and Information on Ingredients

Name	S.K.U	% by Weight
S-BENZYLTHIURONIUM CHLORIDE	GCS-3098	100

Hazards Identification

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 2)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Toxic if swallowed.

First Aid Measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Fire and Explosion Data

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture:

Carbon oxides, nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas

Precautions for fire-fighters:

Wear self contained breathing apparatus for fire fighting if necessary.

Further information: No data available

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end uses: No data available

Exposure Controls/Personal Protection

Control parameters

Components with workplace
control parameters Exposure
controls

Appropriate engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full- face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Physical and Chemical Properties

Appearance Form	: Crystalline
Colour	: Colourless
Odour	: No data available
Molecular Weight	: 202.07 g/mole
Odour Threshold	: No data available
pH	: No data available
Melting point	: 177 - 179 °C - lit.
Boiling point	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Water solubility	:
No data available	
Partition coefficient: noctanol/water:	
No data available	
Autoignition temperature	:
No data available	
Decomposition temperature	:
No data available	
Viscosity	:
No data available	
Explosive properties	: No data available
Oxidizing properties	: No data available

Stability and Reactivity Data

Reactivity: No data available

Chemical stability: No data available

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products

Other decomposition products - no data available

Toxicological Information

Acute toxicity: LD50 Oral - rat - 27 mg/kg

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure:

No data available

Specific target organ toxicity - repeated exposure:

No data available

Aspiration hazard: No data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion May be fatal if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Ecological Information

No data available

Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Transformation Information

Land transport (ADR-RID)

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.
UN N°: 2811

H.I. nr: 60

ADR - Class: 6.1
Labelling - Transport: 6.1: Toxic substances.

ADR - Group: II

Sea transport (IMDG) [English only]
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.
UN N°: 2811
IMO-IMDG - Class or division: 6.1: Toxic substances.

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S.
UN N°: 2811
IATA - Class or division: 6.1: Toxic substances.

IATA - Packing group: II

Other Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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