

1 - Product and Company Information

ProductNameN-CBZ-DL-SERINE CRYSTALLINE

2 - Hazards Identification

3 - Composition/Information on Ingredients

|                          |            |           |         |
|--------------------------|------------|-----------|---------|
| Product Name             | CAS #      | EC no     | Annex I |
| CARBOBENZYLOXY-DL-SERINE | 2768-56-1  | 220-455-0 | None    |
| Formula                  | C11H13NO5  |           |         |
| Molecular Weight         | 239.23 AMU |           |         |

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Store in a cool dry place.  
Store at -20°C

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.  
Hand Protection: Compatible chemical-resistant gloves.  
Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

AppearanceColor: White  
Form: Powder

|                       |                  |                            |
|-----------------------|------------------|----------------------------|
| Property              | Value            | At Temperature or Pressure |
| pH                    | N/A              |                            |
| BP/BP Range           | N/A              |                            |
| MP/MP Range           | 124.0 - 126.0 °C |                            |
| Flash Point           | N/A              |                            |
| Flammability          | N/A              |                            |
| Autoignition Temp     | N/A              |                            |
| Oxidizing Properties  | N/A              |                            |
| Explosive Properties  | N/A              |                            |
| Explosion Limits      | N/A              |                            |
| Vapor Pressure        | N/A              |                            |
| Partition Coefficient | N/A              |                            |
| Viscosity             | N/A              |                            |
| Vapor Density         | N/A              |                            |
| Saturated Vapor Conc. | N/A              |                            |
| Evaporation Rate      | N/A              |                            |
| Bulk Density          | N/A              |                            |
| Decomposition Temp.   | N/A              |                            |
| Solvent Content       | N/A              |                            |
| Water Content         | N/A              |                            |
| Surface Tension       | N/A              |                            |
| Conductivity          | N/A              |                            |
| Miscellaneous Data    | N/A              |                            |
| Solubility            | N/A              |                            |

10 - Stability and Reactivity

STABILITY

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

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

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.  
Eye Contact: May cause eye irritation.  
Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 3  
Self-Classification

16 - Other Information



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WARRANTY:

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