

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 **Product identifiers**  
Product name : Z- β -sulfamoyl-Ala-OH  
CAS-No. : 33662-45-2

1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
Identified uses : Laboratory chemicals, Manufacture of substances

2. HAZARDS IDENTIFICATION

2.1 **Classification of the substance or mixture**  
Not a dangerous substance according to GHS.  
This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 **Label elements**  
The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 **Other hazards** - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances**  
Synonyms : N-Cbz-3-sulfamoyl-L-alanine  
Na -Z-3-sulfamoyl-L-alanine  
  
Formula : C11H14N2O6S  
Molecular Weight : 302,3 g/mol  
Component Concentration  
**N(ALPHA)-Z-3-SULFAMOYL-L-ALANINE**  
CAS-No. 33662-45-2 -

4. FIRST AID MEASURES

4.1 **Description of first aid measures**  
**If inhaled**  
If breathed in, move person into fresh air. If not breathing, give artificial respiration.  
**In case of skin contact**  
Wash off with soap and plenty of water.  
**In case of eye contact**  
Flush eyes with water as a precaution.  
**If swallowed**  
Never give anything by mouth to an unconscious person. Rinse mouth with water.  
4.2 **Most important symptoms and effects, both acute and delayed**  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
4.3 **Indication of any immediate medical attention and special treatment needed**  
no data available

5. FIRE-FIGHTING MEASURES

5.1 **Extinguishing media**  
**Suitable extinguishing media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
5.2 **Special hazards arising from the substance or mixture**  
Carbon oxides, nitrogen oxides (NOx), Sulphur oxides  
5.3 **Advice for fire fighters**  
Wear self contained breathing apparatus for fire fighting if necessary.  
5.4 **Further information**  
no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 **Personal precautions, protective equipment and emergency procedures**  
Avoid dust formation. Avoid breathing vapors, mist or gas.  
6.2 **Environmental precautions**  
Do not let product enter drains.  
6.3 **Methods and materials for containment and cleaning up**  
Sweep up and shovel. Keep in suitable, closed containers for disposal.  
6.4 **Reference to other sections**  
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 **Precautions for safe handling**  
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.  
7.2 **Conditions for safe storage, including any incompatibilities**  
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
7.3 **Specific end uses**  
no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**  
**Components with workplace control parameters**  
8.2 **Exposure controls**  
**Appropriate engineering controls**  
General industrial hygiene practice.  
**Personal protective equipment**  
**Eye/face protection**  
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**  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
**Respiratory protection**  
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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 **Information on basic physical and chemical properties**  
a) Appearance Form: crystalline  
Colour: beige  
b) Odour no data available  
c) Odour Threshold no data available  
d) pH no data available  
e) Melting point/freezing point Melting point/range: 124 - 127 °C  
f) Initial boiling point and boiling range no data available  
g) Flash point no data available  
h) Evaporation rate no data available  
i) Flammability (solid, gas) no data available  
j) Upper/lower flammability or explosive limits no data available  
k) Vapour pressure no data available  
l) Vapour density no data available  
m) Relative density no data available  
  
n) Water solubility no data available  
o) Partition coefficient: n-octanol/water no data available  
p) Autoignition temperature no data available  
q) Decomposition temperature no data available  
r) Viscosity no data available  
s) Explosive properties no data available  
t) Oxidizing properties no data available

9.2 **Other safety information**  
no data available

10. STABILITY AND REACTIVITY

10.1 **Reactivity**  
no data available  
10.2 **Chemical stability**  
no data available  
10.3 **Possibility of hazardous reactions**  
no data available  
10.4 **Conditions to avoid**  
no data available  
10.5 **Incompatible materials**  
Strong oxidizing agents  
10.6 **Hazardous decomposition products**  
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 **Information on toxicological effects**  
**Acute toxicity**  
no data available  
**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 harmful 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.  
**Additional Information**  
RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 **Toxicity**  
no data available  
12.2 **Persistence and degradability**  
no data available  
12.3 **Bioaccumulative potential**  
no data available  
12.4 **Mobility in soil**  
no data available  
12.5 **Results of PBT and vPvB assessment**  
no data available  
12.6 **Other adverse effects**  
no data available

13. DISPOSAL CONSIDERATIONS

13.1 **Waste treatment methods**  
**Product**  
Offer treatment and non-recyclable solutions to a licensed disposal company.  
**Contaminated packaging**  
Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 **UN number**  
ADR/RID: - IMDG: - IATA: -  
14.2 **UN proper shipping name**  
ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods  
14.3 **Transport hazard class(es)**  
ADR/RID: - IMDG: - IATA: -  
14.4 **Packaging group**  
ADR/RID: - IMDG: - IATA: -  
14.5 **Environmental hazards**  
ADR/RID: no IMDG Marine pollutant: no IATA: no  
14.6 **Special precautions for user**  
no data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  
15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
no data available  
15.2 **Chemical Safety Assessment**  
no data available

16. OTHER INFORMATION

**Further information**  
  
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