



MATERIAL SAFETY DATA SHEET

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: N-(Benzyloxycarbonyloxy)succinimide, 98%

Catalog Numbers:

21117-0000, 21117-0250, 21117-1000

Synonyms:

Z-ONSu; Z-OSu

Company Identification (Europe):

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

| | | |
|----------------|---|-------------------------------------|
| CAS # | : | 13139-17-8 |
| Chemical Name | : | N-(Benzyloxycarbonyloxy)succinimide |
| % | : | 98% |
| EINECS# | : | 236-075-3 |
| Hazard Symbols | : | None Listed. |
| Risk Phrases | : | None Listed. |

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Moisture sensitive.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May be harmful if absorbed through the skin. May cause sensitization by skin contact.

Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation:

May cause respiratory tract irritation. May be harmful if inhaled.



Chronic:

Repeated or prolonged exposure may cause allergic reactions in sensitive individuals.

SECTION 4 - FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately.

Notes to Physician:

Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

****** SECTION 6 - ACCIDENTAL RELEASE MEASURES ******

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 - HANDLING AND STORAGE

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------|----------------------------|
| Physical State | : Crystalline powder |
| Color | : white - off-white - fine |
| Odor | : Not available. |
| PH | : Not available. |
| Vapor Pressure | : Not available. |
| Viscosity | : Not available. |
| Boiling Point | : Not available. |
| Freezing/Melting Point | : 77 - 82 deg C |
| Autoignition Temperature | : Not available. |
| Flash Point | : Not available. |
| Explosion Limits, lower | : Not available. |
| Explosion Limits, upper | : Not available. |
| Decomposition Temperature | NA |
| Solubility in water | : Insoluble. |
| Specific Gravity/Density | NA |
| Molecular Formula | C12H11NO5 |
| Molecular Weight | 249.22 |

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization:

Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 13139-17-8 unlisted.

LD50/LC50:

Not available.

Oral, rat: LD50 >2000 mg/kg

Carcinogenicity:

N-(Benzyloxycarbonyloxy)succinimide -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

NA

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name: Not regulated.

Hazard Class:NA

UN Number:NA

Packing Group:NA

IMO

Shipping Name: Not regulated.

Hazard Class:NA

UN Number:NA

Packing Group:NA

RID/ADR

Shipping Name: Not regulated.
Hazard Class:NA
UN Number:NA
Packing group:NA

SECTION 15 - REGULATORY INFORMATION

European/International Regulations**European Labeling in Accordance with EC Directives**

Hazard Symbols: Not available.

Risk Phrases:

NA

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 13139-17-8: No information available.

United Kingdom Occupational Exposure Limits**United Kingdom Maximum Exposure Limits****Canada**

CAS# 13139-17-8 is listed on Canada's DSL List.

CAS# 13139-17-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits**US FEDERAL**

TSCA

CAS# 13139-17-8 is not listed on the TSCA inventory.

It is for research and development use only.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 7/16/1996 Revision #1 Date: 9/11/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

