SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 08/30/2009 Print Date 03/20/2011 1. PRODUCT AND COMPANY IDENTIFICATION Product name : Z-Pro-OSu Product Number ÷ C0295 Brand Sigma Company Sigma-Aldrich : 3050 Spruce Street SAINT LOUIS MO 63103 USA : +18003255832 Telephone Fax : +18003255052 Emergency Phone # (314) 776-6555 2. COMPOSITION/INFORMATION ON INGREDIENTS Synonyms : Z-L-proline hydroxysuccinimide ester N-Cbz-L-proline N-hydroxysuccinimide ester Formula $: C_{17}H_{28}N_2O_6$ Molecular Weight 356.41 g/mol CAS-No. EC-No. Index-No. Concentration Benzyl (S)-2-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]pyrrolidine-1-carboxylate 3397-33-9 222-255-9 -_ **3. HAZARDS IDENTIFICATION Emergency Overview OSHA Hazards** No known OSHA hazards **HMIS Classification** Health Hazard: 0 Flammability: 0 Physical hazards: 0 **NFPA** Rating Health Hazard: 0 Fire: 0 Reactivity Hazard: 0 **Potential Health Effects** Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. Eves Sigma-Aldrich Corporation

Ingestion	May be harmful if swallowed.		
4. FIRST AID MEASURES			
If inhaled If breathed in, move pers	on 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 m	nouth to an unconscious person. Rinse mouth with water.		
5. FIRE-FIGHTING MEASUR	ES		
Flammable properties Flash point	no data available		
Ignition temperature Suitable extinguishing i Use water spray, alcohol-	no data available media -resistant foam, dry chemical or carbon dioxide.		
Special protective equip Wear self contained brea	oment for fire-fighters thing apparatus for fire fighting if necessary.		
6. ACCIDENTAL RELEASE	/EASURES		
Personal precautions Avoid dust formation.			
Environmental precautions Do not let product enter drains.			
Methods for cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.			
7. HANDLING AND STORAG	E		
Handling Provide appropriate exha protection.	ust ventilation at places where dust is formed. Normal measures for preventive fire		
Storage Keep container tightly clo	Storage Keep container tightly closed in a dry and well-ventilated place.		
Recommended storage to	Recommended storage temperature: -20 °C		
8. EXPOSURE CONTROLS/F	PERSONAL PROTECTION		
Contains no substances	with occupational exposure limit values.		
Personal protective equ	lipment		
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).			

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection Safety glasses

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	crystalline	
Colour	white	
Safety data		
рН	no data available	
Melting point	88 °C (190 °F)	
Boiling point	no data available	
Flash point	no data available	
Ignition temperature	no data available	
Lower explosion limit	no data available	
Upper explosion limit	no data available	
Water solubility	no data available	

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

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.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as

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a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure

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

Potential Health Effects

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

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards

DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Benzyl (S)-2-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]pyrrolidine-1-	3397-33-9
carboxylate	

CAS-No.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III. Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III. Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Benzyl (S)-2-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]pyrrolidine-1- carboxylate	CAS-No. 3397-33-9	Revision Date
New Jersey Right To Know Components		
Benzyl (S)-2-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]pyrrolidine-1-	CAS-No. 3397-33-9	Revision Date

Benzyl (S)-2-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]pyrrolidine-1-

carboxylate

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further information

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