Creosalus, Inc (Advanced ChemTech) www SAFETY DATA SHEET

www.AdvancedChemTech.com

Revision Date 09/29/2017

1.1	DUCT AND COMPANY IDENTIFICA	lion			
	Product identifiers				
	Product name	: Z-Orn-OH			
	Product Number	: ZO2650			
	Brand	: Advanced ChemTech			
	CAS-No.	: 3304-51-6			
1.2	Relevant identified uses of the	substance or mixture and uses advised against			
	Identified uses : Laboratory chemicals, Manufacture of substances				
1.3	Details of the supplier of the safety data sheet				
1.5	Company	: Creosalus, Inc.			
	Company				
		5609 Fern Valley Rd, Louisville, KY 40228 USA			
	Telephone	: +1 800-456-1403			
	Fax	: +1 502-968-1000			
1.4	Emergency telephone number	: +1 800-424-9300 Chemtrec			
2 HA7A					
2.1		or mixture: Not a hazardous substance or mixture.			
2.2		precautionary statements: Not a hazardous substance or mixture.			
2.3		d (HNOC) or not covered by GHS – none			
	POSITION/INFORMATION ON INGR	EDIENTS			
3.1	Substances				
	Synonyms	: Z-Orn-OH			
	Formula	: C13H18N2O4			
	Molecular Weight	: 266.29g/mole			
	CAS-No.	: 3304-51-6			
	No ingredients are hazardous acc				
	No components need to be disclosed according to the applicable regulations.				
4. FIRST	T AID MEASURES				
4.1	Description of first aid measure	S			
		erson 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 eye				
		g by mouth to an unconscious person. Rinse mouth with water.			
4.2	Most important symptoms and	effects, both acute and delayed: The most important known symptoms and effects are described in th			
	labeling (see section 2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed: No data available				
4.3					
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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).

Control of environmental exposure Do not let product enter drains.

9. PHYS	CAL AND CHEMICAL PROPERTIES				
9.1	Information on basic physical and chemical properties				
	a) Appearance	Form: White to Off-White powder			
	b) Odor	no data available			
	c) Odor Threshold	no data available			
	d) pH	no data available			
	 e) Melting point/freezing point 	Melting point/range: 76 - 78 °C (169 - 172 °F) - lit			
	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) Vapor pressure	no data available			
	I) Vapor density	no data available			
	m) Relative density	no data available			
	n) Water solubility	no data available			
	 Partition coefficient: n- octanol/water 	no data available			
	p) Auto-ignition 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

- Chemical stability: Stable under recommended storage conditions. 10.2
- 10.3 Possibility of hazardous reactions: No data available
- Conditions to avoid: No data available 10.4
- 10.5 Incompatible materials: Strong oxidizing agents
- 10.6 Hazardous decomposition products: Other decomposition products - no data available. In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION 11.1

Information on toxicological effects

- Acute toxicity: No data available
- Inhalation: No data available

Dermal: 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.
- 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 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.

Reproductive toxicity:

Reproductive toxicity - mouse - Intraperitoneal Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated). Reproductive toxicity - mouse - Intravaginal Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive

females; # females pregnant per # females mated).

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

- Aspiration hazard: No data available
- Additional Information: RTECS: UY0745000

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

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: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- Other adverse effects: No data available 12.6

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13. DISPOSAL CONSIDERATIONS 13.1

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods IMDG Not dangerous goods

IATA Not dangerous goods

15. REGULATORY INFORMATION 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

Z-Orn-OH							
	CAS-No.	Revision Date					
	3304-51-6						
New Jersey Right to Know Components							
Z-Orn-OH							
	CAS-No.	Revision Date					
	3304-51-6						

California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating	
Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0
NFPA Rating	
Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. CreoSalus, Inc. shall not be liable for any damage resulting in the handling or from contact with the above product.

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