	Section 1 - Product Information			
Product Name: Orthozime		Supplier	The Ruhof Corporation	
Product Code: 34549	Information Phone: 1-800-537-8463	Address	393 Sagamore Avenue	
Product Use: Medical Instrument Cleaning	Emergency Contact: 1-800-424-9300 (Chemtrec)	Audress	Mineola NY 11501	
	Section 2 - Hazards Identification			

GHS Classification This product is not classified as hazardous

Section 2.1 Label Elements

	Precautionary Stat	ements
Hazard Pictograms	Prevention	

Wear eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

Not Applicable

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

In case of inadequate ventilation wear respiratory protection.

Immediately call a POISON CENTER or doctor/physician.

present and easy to do. Continue rinsing.

Signal Word: Not Applicable

Hazard Statements: Not Applicable

Inhalation

Prevention

• IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Section 3 - Composition/Information on Ingredients Chemical Name CAS-No Weight % Trade secret Subtilisins (proteolytic enzymes) 9014-01-1 Below reportable limit

A. FIRST AID MEASURE

TITINGT THE PILLIBORED				
General Advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.			
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Immediate medical attention is required.			
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.			
Inhalation	Move to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.			
Ingestion	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.			

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

May cause sensitization by inhalation Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None. Protective Equipment and Precautions for Firefighters

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

<u>Personal precautions, protective equipment and emergency procedures</u>

Personal Precautions Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of

Environmental Precautions. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

Storage Keep in properly labeled containers. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products None known based on information supplied

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	8. EXPOSURE CONTROLS / PERSONAL PROTECTION				
	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Subtilisins (proteolytic enzymes)		Ceiling: 0.00006 mg/m3 as crystalline	(vacated) STEL: 0.00006 mg/m3	Ceiling: 0.00006 mg/m3 as crystalline	
		activo ongumo		activo ongumo	

Appropriate engineering controls

Engineering Measures Showers, Eyewash stations, Ventilation systems







Individual protection measures, such as personal protective equipment



Skin and Body Protection Lightweight protective clothing. Impervious gloves.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

9. PHYSICAL AND CHEMICAL PROPERTIES					
Physical State	Odor	Appearance	рН	Melting Point/Range	Boiling Point
Liquid	Tropical	Green	6-8	No data available	>100C
Flash Point	Flammability Limits	Vapor Pressure	Specific Gravity	Water Solubility	Flammable Properties
No data available	No data available	No data available	1.01-1.03	Soluble	Not Flammable
		10. STABILITY	AND REACTIVITY		
	Reactivity			No data available.	
	Chemical stability		Stable u	nder recommended storage co	anditions
Pos	ssibility of hazardous reacti	ons	None under normal processing.		
Hazardous Polymerization		Hazardous polymerization does not occur.			
	Conditions to avoid		None known based on information supplied.		
	Incompatible materials		None known based on information supplied.		
Haz	ardous decomposition prod	lucts	None known based on information supplied		
			CAL INFORMATION		<u>прричи</u>
Inhalation	May cause allergy or asthm	a symptoms or breathing diff	iculties if inhaled.		
Eye Contact	Irritating to eyes. Causes se	rious eye damage.			
Skin Contact	May cause irritation.				
Ingestion	There is no data available for		T		
Chemical Nam	·	LD50 Oral	LD50 Derma	l I	.C50 Inhalation
Subtilisins (proteolytic		3700 mg/kg (Rat)	-		-
•	ects and also chronic effects				
Sensitization	•	f susceptible persons. May cau	-	l.	
Carcinogenicity	ĕ	oove reportable quantities list	- C		
Chronic Toxicity		Repeated contact may cause a	allergic reactions in very susce	eptible persons.	
Target Organ Effects	Respiratory system. Eyes.		L INFORMATION		
		12. ECOLOGICA	LINFORMATION		
	Ecotoxicity		The product is r	not expected to be hazardous t	o the environment.
Persistence and Degradability			No information available.		
Bioaccumulation		The product does not contain any substances expected to be bioaccumulating.			
	Other Adverse Effects			No information available.	
		13. DISPOSAL C	CONSIDERATIONS		
	Waste Disposal Methods		Dispose of in acc	cordance with federal, state, a	nd local regulations
	Contaminated Packaging		Do not re-use empty containers.		
	0 0	14. TRANSPOR	T INFORMATION	1 3	
	DOT		•	by international regulation or	
		15 DECILIATOR		goods (IMDG, IATA, ADR/RID).
0.6 () 1:	. 1 . 1		Y INFORMATION		
Safety, health and environ	nmental regulations/legisla	tion specific for the substar		la . (aum a c . D . a	u . c . ca . wo .
The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) i implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006					
National Regulations The Chemicals (Hazard Information and Packaging for Supply) Regula 1689.Workplace Exposure Limits 2005 (EH40)				apply) Regulations 2002. No.	
16. OTHER INFORMATION					
<u>NFPA</u>	Health Hazard 1	Flammabi	<u>. </u>	tability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 1	Flammabi	lity 0 Physic	cal Hazard 0	Personal Protection X



Prepared By The Ruhof Corporation 393 Sagamore Avenue Mineola, NY 11501

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General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet