# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078919929

N/A

MATERIAL SAFETY DATA SHEET US DEPARTMENT OF LABOR 1/2 MAY BE USED TO COMPLY WITH OCCUPATIONAL SAFETY & HEALTH ADMIN. OSHA'S HAZARD COMMUNICATION STANDARD. (NON-MANDATORY FORM) 29 CFR 1910.1200. STANDARD MUST BE FORM APPROVED **NSULTED FOR SPECIFIC REQUIREMENTS** OMB NO. 1218.0072 MATERIAL SAFETY DATA SHEET **D.O.T.**: Not Regulated  $\boxtimes$  or Regulated  $\square$ PRODUCT: Shipping Name (If regulated): ENDOZIME AW TRIPLE PLUS with APA SECTION I Emergency Phone: 1-800-424-9300 Manufactured By: RUHOF CORPORATION Information Phone: 516-294-5888 Date Prepared: 2/23/04 393 SAGAMORE AVENUE Signature of Preparer (optional): MINEOLA NY 11501-1919 =====SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION= % **OSHA PEL** CAS# **Hazardous Components:** Specific Chemical Identity (Common Name): <5% 2-PROPANOL 400 PPM 67-63-0 NO Reactivity? NO Acute? NO Chronic? NO Sara Hazard: Fire? NO Pressure? =SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS= 1.0 Specific Gravity (water=1): 212 F boiling Point: AS WATER **Melting Point:** N/A Vapor Pressure (mm Hg): 1.0 Vapor Density (Air=1): N/A **Evaporation Rate: Evaporation Standard:** WATER 6.0 - 7.5pH: Solubility in Water: COMPLETE BLUE LIQUID WITH TROPICAL ODOR. Appearance & Odor: =SECTION IV - FIRE AND EXPLOSION HAZARD DATA=== NONE Flash Point (Method Used): Lower: N/A Upper: N/A Flammable Limits in Air (%): N/A WATER, FOAM, CO2 DRY CHEMICAL **Extinguishing Media:** Special Fire Fighting Procedures: FIGHT SURROUNDING FIRE. USE EQUIPMENT AS IF CHEMICAL FIRE. **NFPA HMIS** Ratings 0 Health 1 0 0 Fire Reactivity 0 0 Fire/Explosion Hazards: NONE KNOWN. =SECTION V - REACTIVITY DATA= Stable X Unstable Stability: DO NOT FREEZE aditions to Avoid: STRONG OXIDANTS Materials to Avoid: NONE KNOWN Hazardous Decomp/Byproducts: Hazardous Polymerization: May Occur Will Not Occur Conditions to Avoid: Will Not Occur (877) 683-7460 Conditions to Avoid:

Routes of Entry: Inhalation?YES Skin?YES Ingestion?YES

Acute & Chronic Health Hazards:

REPEATED INHALATION OF ENZYME SPRAY OR MIST MAY CAUSE ALLERGIC

REACTION IN SUSCEPTIBLE PERSONS.

Carcinogenicity:NO NTP:NO IARC:NO OSHA Regulated:NO

Signs/Symptoms of Exposure:

SKIN-DERMATITIS. EYES-IRRITATION-REDDENING. INGESTION GASTRIC UPSET

AND IRRITATION. INHALATION-ASTHMA TYPE SYMPTOMS.

Medical Conditions Generally Aggravated by Exposure:

ASTHMA AND DERMATITIS.

**Emergency and First Aid Procedures:** 

INHALATION-REMOVE TO FRESH AIR. INGESTION- RINSE MOUTH AND THROAT WITH WATER. SKIN AND EYES- FLUSH WITH FRESH WATER-IN THE CASE OF ANY

SYMPTOMS-SEE DOCTOR.

In case Material is Released or Spilled:

FLUSH OR MOP UP TO SANITARY SEWER-BIODEGRADABLE.

Waste Disposal Method:

SANITARY SEWER-BIODEGRADABLE.

Precautions to be Taken in Handling and Storing:

KEEP FROM FREEZING. STORE IN A DRY AREA. KEEP AWAY FROM OXIDANTS.

**Other Precautions:** 

NONE.

=======SECTION VIII - CONTROL AND PROTECTION MEASURES=======

**Respiratory Protection:** 

NIOSH-APPROVED MASK IF MIST IS LIKELY.

Ventilation: YES Special Ventilation: NO Local Exhaust Needed: NO Mechanical: YES Other: NO

(General)

Protective Gloves: RUBBER OR PLASTIC

Eye Protection: GOGGLES. Clothing/Equipment: APRON

Work/Hygiene: WASH CONTAMINATED CLOTHING BEFORE REUSE.

The information provided in this MSDS has been obtained from sources believed to be reliable. The manufacturer provides no warranues, either expressed or implied, and assumes no responsibility for accuracy or completeness of the data contained herein. The information is offered for your consideration and investigation. You should satisfy yourself that you have all current data relevant to your particular use. The manufacturer knows of no medical conditions other than those noted on this MSDS, which are generally recognized as being aggravated by exposure to this product.

Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460

Section 1 - Product Information				
Product Name: Endozime AW Plus with A.P.A.			The Ruhof Corporation	
Product Code: 34521	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 Respiratory Sensitization Category 1

### Section 2.1 Label Elements

**Precautionary Statements** Hazard Pictograms Prevention Wear eye/face protection.

Not Applicable

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

present and easy to do. Continue rinsing.

Signal Word: Not Applicable

**Hazard Statements:** Not Applicable

Inhalation • IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position

Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection.

Immediately call a POISON CENTER or doctor/physician.

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	*		

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

## 4 FIRST AID MEASURES

II I III I III I III III III III III I				
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.

# ACCIDENTAL RELEASE MEASURE

#### Personal precautions, protective equipment and emergency procedures

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.

## . 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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	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	
		active enzyme		active enzyme	

#### Appropriate engineering controls

**Engineering Measures** Showers, Eyewash stations, Ventilation systems







Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety goggles.

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

	ģ	O. PHYSICAL AND CH	HEMICAL PROPERTI	IES	
Physical State	Odor	Appearance	pН	Melting Point/Range	Boiling Point
Liquid	Tropical	Blue	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 under recommended storage conditions.		
Pos	ssibility of hazardous reacti	ons	None under normal processing.		
	<b>Hazardous Polymerization</b>		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	ucts	None known based on information supplied		
		11. TOXICOLOGI	CAL INFORMATION		
Inhalation	May cause allergy or asthma	a symptoms or breathing diff	iculties if inhaled.		
Eye Contact	Irritating to eyes. Causes ser	rious eye damage.			
Skin Contact	May cause irritation.				
Ingestion	There is no data available fo	*			
Chemical Nam		LD50 Oral	LD50 Derma	l L	C50 Inhalation
Subtilisins (proteolytic		700 mg/kg ( Rat )	-		-
-	ects and also chronic effects	<del>-</del>	<del>_</del>		
Sensitization			ise sensitization by inhalation		
Carcinogenicity		ove reportable quantities list	e e		
Chronic Toxicity	•	•	allergic reactions in very susce	eptible persons.	
Target Organ Effects	Respiratory system. Eyes.		L INFORMATION		
		12. ECOLOGICA			
Ecotoxicity			The product is not expected to be hazardous to the environment.		
Persistence and Degradability		No information available.			
Bioaccumulation		The product does not contain any substances expected to be bioaccumulating.			
	Other Adverse Effects	13 DISPOSAL (	CONSIDERATIONS	No information available.	
		13. DIST USAL (	ONSIDERATIONS		
	<b>Waste Disposal Methods</b>		Dispose of in acc	cordance with federal, state, ar	nd local regulations
	Contaminated Packaging		Do not re-use empty containers.		
		14. TRANSPOR	T INFORMATION		
			The product is not covered	by international regulation or	the transport of dangerous
	DOT		The product is not covered by international regulation on the transport of dangerous		
		15 RECULATOR	Y INFORMATION	goods (IMDG, IATA, ADR/RID)	<u>.                                      </u>
Safety health and environ	nmental regulations/legisla				
Survey, nearth and environ	EU Legislation	don specific for the substat		ed System (GHS) Safety Data S	heet format (Anney IV) is
	Lo Legislation			f REACH EU No 453/2010 of 2	
			regulation (EC) No 1907/2	•	our may 2010 amonamy
			3 ( .,		
	National Regulations		The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No.		
Ü		1689.Workplace			
	Exposure Limits 2005 (EH40)				
		16. OTHER I	NFORMATION		
<u>NFPA</u>	Health Hazard 1	Flammabi	lity 0 Ins	tability 0	Physical and Chemical
					Hazards -
<u>HMIS</u>	Health Hazard 1	Flammabi	lity 0 Physic	cal Hazard 0	Personal Protection X
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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**