MATERIAL SAFETY DATA SHEET"17 1, 1986

SECTION I	NAME			
Product	CIPASE	CHEMTREC	TREC Health 0	0
Chemical Synonyms	Steapsin	Day 716-226-6177		Fire 0
Formula		Night 716-334-4222		
	Complex Protein Molecule	NFPA	Reactivity 1	1
Unit(s) Size	25, 100, 500 grams	HAZARD RATING		
C.A.S. No.	None assigned	0 1 2	ယ္ဒီ	4
SECTION II	II HAZARDOUS INGREDIENTS OF MIXTURES	S OF MIXTU	JRES	
Principal Ha	Principal Hazardous Component(s)	%	TLV Units	ls:
Lipase		100%	None established	hed
Low hazar	Low hazard for usual laboratory handling; non-toxic.			

SECTION III PHYSICAL DATA		er et de la desta de la companya de	
Melting Point (°F)	Decomposes on heating	Specific Gravity (H,0=1) No data available	No data available
Boiling Point (°F)	Decomposes on heating	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg) Negligible as solid	Negligible as solid	Evaporation Rate = 1)	= 1} Non-volatile (NA).
Vapor Density (Air = 1) None listed	None listed		
Solubility in Water Complete	Complete	,	

Appearance and Odor Light tan amorphous powder; no odor.

	•	Hater spray; carbon dioxide (CO ₂); dry chemical (ABC).	Extinguisher Media
		Non-Tlammable (NA). % by Volume NA	(Method Used)
Upper	Lower	Flammable Limits in Air	Flash Point
	ATA	SECTION IV FIRE AND EXPLOSION HAZARD DATA	SECTION

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. Powder form in air is capable of creating a dust explosion.

D.O.T.

NON-REGULATED

SCIENTIFIC Trey

FREY SCIENTIFIC

905 HICKORY LANE MANSFIELD OHIO 44905 MSDS No. Effective Date

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

None established. (ACGIH 1983-84)

Effects of Overexposure

May be slight skin and/or respiratory irritant upon exposure to dust. Primarily an allergic reaction. $\underline{IHGESTION:}$ Low hazard. $\underline{EYES:}$ No specific hazard known. Contact may cause irritation.

Emergency and First Aid Procedures

<u>SKIM:</u> Flush with water, then wash with soap and water. <u>EYES:</u> Flush thoroughly with water. If irritation developersists, get medical attention.

<u>INGESTION:</u> Hone indicated. medical attention. If ill effects develope, get If irritation develops

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SECTION VI REACTIVITY DATA

Stability Unstable Stable **Conditions to Avoid** Mositure, excessive temperature, heat.

Incompatibility (Materials to avoid)

Hazardous

Strong oxidizers, caustic materials

Decomposition Products Hazardous Polymerization Will Not Occur **Conditions to Avoid** (%).

and/or carbon monoxide, oxides of Nitrogen (NO_X) and Sulfur

Thermal decomposition or burning will produce carbon dioxide

May Occur

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Hinimize dusting and prevent distribution of airborne dust. Vacuum clean or wet mop spill. Flush to sewer with copious amounts of water.

Waste Disposal Method

Oispose of in an approved incinerator or in a sanitary landfill

Discharge, treatment, or disposal may be subject to federal, state, or local laws

SECTION VIII SPECIAL PROTECTION INFORMATION

Protective Gloves Ventilation Local Exhaust Recommended espiration Protection pecify Type) Wone should be needed in normal laboratory handling. I work in a fume hond or wear a HIOSH-approved dust mask that has no necessary special Eye Protection Other

If dusty conditions prevail,

Chemical safety glasses.

Other Protective Equipment Smock, apron, eye wash station, proper gloves. Rubber

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Store in a cool, dry place away from strong oxidizing agents and caustic materials. Wash thoroughly after handling.

keep container tightly closed when not in use

Other Precautions

Read label on container before using.

To prolong product life, store in a dry sealed container at 4°C.

Rev. No.

Date

1/2/87 Approved

Chemical Safety Coordinator

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For laboratory use only. Not for drug, food or household use. Keep out of reach of children

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