

ProEZ™ foam

Foaming Enzymatic Spray

CERTOL®
INTERNATIONAL, LLC

MATERIAL SAFETY DATA SHEET • MSDS # _____

ISSUE DATE: September 2002 (Supersedes June 2002)

Certol International, LLC. urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate, to use and understand the data in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers, and other users of the product of this information.

Emergency and First Aid Procedures

SWALLOWING: Rinse mouth, give water, and seek medical attention. Do not give anything by mouth to an unconscious or convulsing person.

SKIN: Wash with soap and water.

INHALATION: N/A

EYES: Flush with water for 15 minutes.

NOTES TO PHYSICIAN: None.

Phone: (303) 799-9401 • Emergency No.: (800) 535-5053

I. IDENTIFICATION

PRODUCT NAME: ProEZ™ foam (Enzymatic Detergent)

CHEMICAL NAME:

FORMULA: Proprietary

MOLECULAR WEIGHT: N/A

SYNONYMS: N/A

II. HAZARDOUS INGREDIENTS

NAME	CAS #:
Bacterial Protease	9014-01-1
Bacterial Amylase	9000-90-2
O-Benzyl-P-Chlorophenol	120-32-1

III. PHYSICAL DATA

BOILING POINT: 100°C - 105°C

FREEZING POINT: Below 0°C

SPECIFIC GRAVITY (H₂O=1) VAPOR PRESSURE AT 20°C: 1.02

VAPOR DENSITY: Heavier than air.

SOLUBILITY IN WATER by wt.: 100% miscible.

EVAPORATION RATE: Not tested.

APPEARANCE: Amber solution.

ODOR: Fresh.

IV. FIRE AND EXPLOSION HAZARD

FLASH POINT: N/A

FLAMMABLE LIMITS IN AIR: N/A

EXTINGUISHING MEDIA: Dry chemical, CO₂, dry foam.

SPECIAL FIRE FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

V. HEALTH HAZARD DATA

Component	%	ACGIH TLV	OSHA PEL	LD ₅₀ (Dermal Rat)	LD ₅₀ (Oral Rat)
Bacterial Protease	.00006	mg/m ³	N/D	N/D	N/D
Bacterial Amylase		N/D	N/D	N/D	N/D
O-Benzyl-P-Chlorophenol	.03%			>2.5g/kg	5g/kg

TLV AND SOURCE: N/A

EFFECTS OF SINGLE OVEREXPOSURE:

SWALLOWING: Can cause gastrointestinal irritation, nausea, or diarrhea.

SKIN ABSORPTION: Prolonged contact may cause irritation.

INHALATION: N/A

SKIN CONTACT: Prolonged contact may cause irritation.

EYE CONTACT: Can cause irritation.

EFFECTS OF REPEATED OVEREXPOSURE: None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:
None known.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION: None known.

OTHER EFFECTS OF OVEREXPOSURE: None known.

VI. REACTIVITY DATA

STABILITY: Stable at ambient conditions.

CONDITIONS TO AVOID: Extremely high temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS: Nitrous oxides and ammoniacal vapors.

HAZARDOUS POLYMERIZATION: None.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Absorb spill with dry absorbent. Wash down with soap and water.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local and state regulations, product is biodegradable.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): None.

PROTECTIVE GLOVES: Impervious, chemical resistant gloves.

EYE PROTECTION: Protective eyewear required.

OTHER PROTECTIVE EQUIPMENT: None.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep in a cool place, below 45°C. Keep out of reach of children.

OTHER PRECAUTIONS:

Avoid splashing.

X. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS: Noncarcinogen.

FEDERAL EPA

STATE RIGHT-TO-KNOW

XI. TRANSPORTATION DATA

D.O.T. none.

Do not store above 45°C

CHEMICAL WARNING LABELS

Chemical warning labels are required on all containers, tubs, and bottles which are filled or refilled with potentially hazardous substances from an original, manufacturer-labeled container.

The following hazard ratings correspond to the NFPA Rating System.

NFPA HAZARD RATING

HEALTH: 1

Caution – can be irritating.

FLAMMABILITY: 0

Will not burn.

REACTIVITY: 0

Stable – does not react with water.

Below is a sample of a chemical warning label, which reflects chemical information for **ProEZ™ foam**. It clearly communicates what each hazard means – no wall reference chart is necessary.

Product Name: **ProEZ™ foam**
Hazardous chemical(s): **Bacterial Protease, Bacterial Amylase**
Route of Entry:
3 Inhalation
3 Ingestion
3 Skin/Eye Absorption
Target Organ Effects:
q Respiratory q Prostate
q Heart q Blood
q Kidney q Liver
q Eyes q CNS
q Skin q Other: _____
Personal Protection: **Gloves, Protective Eyewear**
MSDS#: _____

Health Hazard

3 Irritant
Carcinogen
Toxic
Sensitizer
Normal Material

Fire Hazard

Flash Points
Below 73°F
Below 100°F
Above 100°F. Not
exceeding 200°F
3 Above 200°F
Will Not Burn

Physical Hazard

Oxidizer
Acid
Alkali
Corrosive
Use NO Water
Radioactive

Reactivity

May Detonate
Shock and Heat
May Detonate
Violent Chemical
Change
3 Unstable if Heated
Stable