

**MATERIAL SAFETY DATA SHEET**

**PRODUCT:**  
PREPZYME XF

**D.O.T. :** Not Regulated  or Regulated   
Shipping Name (If regulated) :

**SECTION I**

**Manufactured By:**  
RUHOF CORPORATION  
393 SAGAMORE AVENUE  
MINEOLA NY 11501-1919

**Emergency Phone:** 1-800-424-9300  
**Information Phone:** 516-294-5888  
**Date Prepared:** 10/20/06  
**Signature of Preparer (optional):**

**SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<b>Hazardous Components:</b>	<b>OSHA PEL</b>	<b>CAS #</b>	<b>%</b>
Specific Chemical Identity (Common Name) :			
NONYLPHENYL-POLYETHYLENE GLYCOL		9016-45-9	<5
NONOXYNOL-9		68412-54-4	<5

**Sara Hazard:** Fire? NO Pressure? NO Reactivity? NO Acute? NO Chronic? NO

**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b>	212 F	<b>Specific Gravity (water=1):</b>	1.0
<b>Vapor Pressure (mm Hg) :</b>	AS WATER	<b>Melting Point:</b>	N/A
<b>Vapor Density (Air=1):</b>	N/A	<b>Evaporation Rate:</b>	1.0
<b>pH:</b>	6.0-7.5	<b>Evaporation Standard:</b>	WATER
<b>Solubility in Water:</b>	COMPLETE		
<b>Appearance &amp; Odor:</b>	CLEAR ODORLESS LIQUID		

**SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

**Flash Point (Method Used) :** NONE  
**Flammable Limits in Air (%):** N/A Lower: N/A Upper: N/A  
**Extinguishing Media:** WATER, FOAM, CO2 DRY CHEMICAL

**Special Fire Fighting Procedures:**

FIGHT SURROUNDING FIRE. USE EQUIPMENT AS IF CHEMICAL FIRE.

Ratings	NFPA	HMIS
Health	1	0
Fire	0	0
Reactivity	0	0

**Fire/Explosion Hazards:**  
NONE KNOWN

**SECTION V – REACTIVITY DATA**

**Stability:** Unstable  Stable   
**Conditions to Avoid:** DO NOT FREEZE  
**Materials to Avoid:** STRONG OXIDANTS  
**Hazardous Decomp/Byproducts:** NONE KNOWN  
**Hazardous Polymerization:** May Occur  Will Not Occur   
**Conditions to Avoid:** NONE

=====SECTION VI – HEALTH HAZARD DATA=====

**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. NO SPECIAL HAZARD FROM FOAM SPONGE.

**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.

=====SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE=====

**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 SUGGESTED.

**Clothing/Equipment:** APRON

**Work/Hygiene:** WASH CONTAMINATED CLOTHING BEFORE REUSE.

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