

Approved: July 15, 2009

**NFPA**  
Flammability

Health      Reactivity

0 = Minimal Hazard  
4 = Severe Hazard

**MATERIAL SAFETY DATA SHEET\* (MSDS)**  
**International Products Corporation**

**ZYMIT® PRO**  
**ENZYME CLEANER**

**HMIS**

Health – 2  
Flammability – 0  
Reactivity – 0  
Personal Protection – B

0 = Minimal Hazard  
4 = Severe Hazard  
B = Safety Glasses & Gloves

**1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME** ..... ZYMIT® PRO Enzyme Cleaner  
**CHEMICAL FAMILY** ..... Mixture  
**CHEMICAL NAME** ..... Enzyme Cleaner  
**ISSUE DATE OF MSDS** ..... July 15, 2009

**MANUFACTURER:** International Products Corporation  
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 Burlington, NJ 08016 USA

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**EMERGENCY TELEPHONES:**

Transportation:  
 CHEMTREC  
 (800) 424-9300  
 (Calls within USA & Canada)  
 (703) 527-3887  
 (Calls from outside the USA)

Non-transportation:  
 Tel: (609) 386-8770  
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**UK BRANCH:**  
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 238 Green Lane  
 London, SE9 3TL, United Kingdom  
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**4. FIRST AID MEASURES**

**EYE CONTACT** ..... Immediately flush eyes with plenty of water. Get medical attention if irritation develops or persists.

**SKIN CONTACT** ..... Remove contaminated clothing. In the event of skin contact, flush skin with water for 20 minutes. Get medical attention if irritation develops or persists.

**INHALATION** ..... If exposed to excessive levels of fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.

**INGESTION** ..... Do not induce vomiting. Call physician if pain or discomfort develops. Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing.

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients	CAS Number	EEC	
		Hazard Identity	Concentration Range (w/w)
1,2-Dihydroxypropane	57-55-6	Xi; R-36, R-38	10 — 30%
Protease enzyme	Trade secret*	Xn; R-42	0.1 — 1.0%
Amine salt	Trade secret*	Xi; R-36/37/38	3.0 — 7.0%
Aromatic salt	Trade secret*	Xi; R-36, R-38	3.0 — 7.0%

\*Canadian Trade secret #6825. Filing date 10/02/06

**5. FIRE FIGHTING MEASURES**

Nonflammable aqueous cleaner.

**FLASH POINT** ..... None. (ASTM D56).

**LFL** ..... Not applicable.

**UFL** ..... Not applicable.

**EXTINGUISHING MEDIA** ..... Use alcohol foam, carbon dioxide, or water spray to extinguish flames.

**FIRE FIGHTING INSTRUCTION** ..... As in any fire, wear self-contained breathing apparatus, pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water runoff may cause environmental damage. Dike and collect water used to fight fire.

**3. HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW**

Skin and eye irritant. Enzymes are respiratory sensitizers.  
 Avoid inhalation of mists.

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**POTENTIAL HEALTH EFFECTS**

**EYE CONTACT** ..... Irritating to the eyes.

**SKIN CONTACT** ..... Irritating to the skin.

**INHALATION** ..... Mists may cause sensitization.

**INGESTION** ..... No hazard in normal industrial use.

**CARCINOGENICITY:**

**NTP** ..... No ingredients are listed.  
**IARC** ..... No ingredients are listed.  
**OSHA** ..... No ingredients are listed.

**CHRONIC EFFECTS** ..... Not determined.

**TARGET ORGANS** ..... Not determined.

**SIGNS AND SYMPTOMS** ..... Eye and skin irritation (redness or swelling)

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**POTENTIAL ENVIRONMENTAL EFFECTS**

None known.

**6. ACCIDENTAL RELEASE MEASURES**

Clean up spills immediately, observing precautions in Section 8 Personal Protection. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

**7. HANDLING AND STORAGE**

**HANDLING** ..... Avoid contact with eyes, skin and clothing. Use in a well-ventilated area. Avoid inhalation of mists.

**STORAGE** ..... Store in a cool place in original container and protect from sunlight. Refrigeration is recommended. Keep container closed when not in use.

**SHELF LIFE** ..... Two years from date of manufacture when stored in original sealed container at recommended storage temperature range.

**STORAGE TEMPERATURE** ..... 5 – 30°C (41 – 86°F)

\*ANSI Z400.1-1998 format

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**ENGINEERING CONTROLS** ..... Good general ventilation should be sufficient to control airborne levels.

**RESPIRATORY PROTECTION** ..... For most situations, no respiratory protection should be needed.

**SKIN PROTECTION** ..... Wear chemical-resistant gloves.

**EYE PROTECTION** ..... Wear safety glasses with side shields (or goggles). Contact lenses should not be worn.

**GENERAL HYGIENE CONSIDERATIONS** ..... There are no known health hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating.
- Avoid breathing vapors.
- Wear safety glasses and gloves.

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**EXPOSURE LIMITS** ..... Not established for product as whole.

Ingredients	ACGIH (TLV)
Protease enzyme	0.00006 mg / m <sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE** ..... Yellow liquid.

**ODOR** ..... Slight fermentation.

**pH (neat)** ..... ca. 7.5

**BOILING POINT** ..... ca. 100°C (212°F)

**FREEZING POINT** ..... ca. -15°C (5°F)

**SOLUBILITY IN WATER** ..... Complete

**SPECIFIC GRAVITY (water = 1)** ..... 1.09@25°C

## 10. STABILITY AND REACTIVITY

**STABILITY** ..... Stable Liquid.

**HAZARDOUS POLYMERIZATION** ..... Will not occur.

**INCOMPATIBILITIES** ..... Strong oxidizers.

**DECOMPOSITION PRODUCTS** ..... Oxides of nitrogen, carbon and sulfur are hazardous decomposition products of this product.

## 11. TOXICOLOGICAL INFORMATION

Eye: ..... Eye irritant per 16 CFR 1500.42.

Skin: ..... Skin irritant per 16 CFR 1500.41.

Oral: ..... Non-toxic. LD<sub>50</sub> is greater than 5g/kg (rat) per 16 CFR 1500.3.

## 12. ECOLOGICAL INFORMATION

Contains no CFCs, ODCs, phosphates, silicates, halogens, or phenols.

## 13. DISPOSAL CONSIDERATIONS

Zymit® Pro is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, that state and local requirements for waste disposal may be more restrictive (continued)

## 13. DISPOSAL CONSIDERATIONS (continued)

or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

(Note: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.)

## 14. TRANSPORT INFORMATION

### A. USA

**D.O.T. SHIPPING** ..... Not regulated.

**TECHNICAL SHIPPING NAME** ..... Liquid Detergent

**U.N./N.A. NUMBER** ..... None

**D.O.T. LABEL** ..... None.

**D.O.T. PLACARD** ..... None.

**FREIGHT CLASS BULK** ..... Not Applicable

**FREIGHT CLASS PACKAGE** ..... Class 55 — Enzyme Cleaner

**PRODUCT LABEL** ..... Concentrated Enzyme Cleaner

**B. CANADA: TDG** ..... Not regulated.

### C. ENGLAND: APPROVED

**CARRIAGE LIST** ..... Not regulated.

## 15. REGULATORY INFORMATION

### A. USA

**TSCA STATUS** ..... All ingredients are listed on the TSCA inventory.

**SARA TITLE III, 302/303 EHS** ..... None.

**SARA TITLE III, 304, HS** ..... None.

**SARA TITLE III, 313** ..... None.

### B. CANADA

**DSL** ..... All ingredients are listed on the Domestic Substance List.

**WHMIS Classification** ..... D.2.B.

**HMIRC** ..... Registration Number: 6825  
Date of filing: 10/2/06

### C. EC

**EINECS** ..... All ingredients are listed.

**EC Classification** ..... Skin and eye irritant Xi; R-36, R-38. Wear suitable gloves and eye protection.

**RoHS Directive** ..... Zymit Pro does not contain any ingredients listed in 2002/95/EC.

**REACH Directive** ..... All ingredients comply with EC 1907/2006.

### D. CHIPS

..... Skin and eye irritant Xi; R-36, R-38. Wear suitable gloves and eye protection.

For details on specific requirements, you should contact the appropriate agency in your state.

## 16. OTHER INFORMATION

**PREPARED BY** ..... K. Wyrofsky, President  
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**APPROVED BY** ..... T. McGuckin, VP of Quality & Safety  
Tel: 609-386-8770

**APPROVAL DATE** ..... July 15, 2009

**NOTE: All data presented here are for the full-strength product, unless otherwise noted. However, recommended usage is as a 1-2% w/w solution in water.**

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