

ZYMIT®

Low-Foam Enzyme Cleaner

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE

1.1 Product Identifier: ZYMIT® Low Foam Enzyme Cleaner
CAS Number: Not applicable to mixtures
EC Number: Not applicable to mixtures
REACH Registration Number: Not applicable to mixtures
Chemical Formula: Not applicable to mixtures

1.2 Relevant Identified Uses of the substance or mixture and uses advised against them:
 Low-foaming enzyme cleaner for the removal of protein and polysaccharide stains. Do not aerosolize.

1.3 Details of the supplier of the safety data sheet:
 International Products Corporation
 201 Connecticut Drive
 Burlington, NJ 08016, USA
 Tel: (609) 386-8770 / Fax: (609) 386-8438
 E-mail: mkt@ipcol.com / Website: www.ipcol.com
 EU Distributor:
 International Products Corp.
 Unit 5, Green Lane Business Park
 238 Green Lane London, SE9 3TL, United Kingdom
 Tel: 020-8857-5678 Fax: 020-8857-1313
 E-mail: sales europe@ipcol.com

1.4 Emergency Phone Number: 24-Hour CHEMTREC Tel:
 (800) 424-9300 (USA and Canada)
 (703) 527-3887 (Calls from outside the USA)

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the Substance or Mixture:

2.1.1 GHS Classification in accordance with 29 CFR 1910 (OSHA):
 Respiratory Sensitization – Category 1
 Skin Sensitization – Category 1

2.1.2 Classification according to the EC 1272/2008 (CLP):
 Respiratory Sensitization – Category 1
 Skin Sensitization – Category 1

2.2 Label Elements:
 Signal Word: Danger
 Hazard Statements:
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary Statements:
 P261: Avoid breathing mists.
 P285: In case of inadequate ventilation wear respiratory protection.
 P304 + P311: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
 P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
 P501: Dispose of container in accordance with local regulations.
 P280: Wear protective gloves and glasses.

2.3 Other Hazards:
 Skin Irritant – Category 3

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances: Not applicable

3.2 Mixtures:
 No ingredients are present at concentrations above occupational exposure limits.

Ingredient	CAS No.	EC No.	Range
1,2-Dihydroxypropane	57-55-6	200-338-0	10 – 30%
Protease Enzyme	9014-01-1	232-752-2	0.1 – 1.0%
Amylase Enzyme	9000-90-2	232-565-6	0.1 – 1.0%



This product does not contain substances of very high concern Regulation (EC) No 1907/2006 (REACH), Article 57

4. FIRST AID MEASURES

4.1 Description of first aid measures:
 Inhalation: If exposed to excessive fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.
 Ingestion: Rinse mouth. Consult a physician.
 Skin Contact: Remove contaminated clothing. Gently wash skin with soap and water. Get medical attention if irritation develops or persists.
 Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation develops or persists.

4.2 Most important acute and delayed symptoms and effects:
 No data available.

4.3 Indication of immediate medical attention and special treatment:
 Symptomatic treatment.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:
 Use extinguishing media appropriate for surrounding fire.

5.2 Special hazards arising from the substance or mixture:
 Ambient fire may liberate hazardous vapors. In case of fire where water evaporates, vapors may include nitrogen oxides, carbon monoxide, and carbon dioxide.

5.3 Advice for Firefighters:
 Wear self-contained breathing apparatus for fire-fighting.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

6.1.1 For non-emergency personnel:
 Wear appropriate personal protective equipment as specified in Section 8.

6.1.2 For emergency responders:
 Remove persons to safety. Isolate hazard area and deny entry. Ventilate closed spaces before entering. Wear suitable protective equipment.

6.2 Environmental Precautions:
 Do not allow to enter soil or surface waterways.

6.3 Methods and materials for containment and cleaning up:
 Spills will present a slip hazard. Clean up spills with absorbent material or mop. Dried Zymit Low Foam residue can be removed with warm water.

6.4 Reference to other sections:
 See Section 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:
 Protective Measures: Wear personal protective clothing. (See Section 8.) Use in a well ventilated area. Avoid product mists.
 Advice on General Occupational Hygiene: Do not eat, drink and / or smoke in work areas; wash hands after use.

7.2 Conditions for safe storage:
 Zymit Low Foam should be stored in a cool place in its original container. Recommended storage temperature is 2–25°C (36–77°F). Refrigeration is recommended. The shelf life of Zymit Low Foam is two years from the date of manufacture when stored in the original sealed container at the recommended storage temperature.

7.3 Specific End Uses: A 1% to 2% Zymit Low Foam solution is routinely used in immersion, CIP, and manual washing applications to clean a variety of surfaces from protein and polysaccharide soils. Optimum cleaning can be achieved using

<p>distilled water as the diluent and heating the solution to 40°C. Cleaning should be followed by a thorough rinse.</p> <p>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</p> <p>8.1 Control parameters: Protease Enzyme: ACGIH (TLV): 0.00006mg/m³</p> <p>8.2 Exposure Controls:</p> <p>8.2.1 Engineering Controls: Not necessary. Individual protection measures, such as personal protective equipment (PPE): Skin Protection: Rubber, nitrile, or latex gloves are recommended. Eye Protection: Safety glasses with side-shields are recommended.</p> <p>8.2.2 Other: Common sense chemical hygiene practice should be followed.</p> <p>9. PHYSICAL AND CHEMICAL PROPERTIES</p> <p>9.1 Information on basic physical and chemical properties: Appearance: Clear, colorless to pale yellow solution. Odor: Slight fermentation. Odor Threshold: No information found. pH: 7.5 Melting Point / Freezing Point: ca. -8°C (18°F) Initial Boiling Point / Boiling Range: 100 °C (212 °F) Flash Point: Not applicable. Evaporation Rate (BuAc=1): Similar to water. Flammability: Not applicable. Upper / Lower Flammability or Explosive Limits: Not applicable. Vapor Pressure (mm Hg): Similar to water. Vapor Density (Air=1): Similar to water. Relative Density: 1.050 g/mL Solubility: Does not apply. Partition Coefficient: n-octanol / water: Not determined. Auto-ignition Temperature: No information found. Decomposition Temperature: No information found. Viscosity: 10 cps Explosive Properties: Not considered an explosion hazard. Oxidizing Properties: Does not apply.</p> <p>9.2 Other information: % Volatiles by volume @110°C:~ 18% (ASTM D2369-01)</p> <p>10. STABILITY AND REACTIVITY</p> <p>10.1 Reactivity: Stable under recommended storage conditions.</p> <p>10.2 Chemical Stability: Stable under recommended storage conditions.</p> <p>10.3 Possibility of Hazardous Reactions: None known.</p> <p>10.4 Conditions to Avoid: Do not mix with other cleaners.</p> <p>10.5 Incompatible Materials: Avoid sustained, heated contact with copper and its alloys. Zymit Low Foam residue may craze polycarbonate and polymethyl methacrylate.</p> <p>10.6 Hazardous Decomposition Products: Does not decompose when used as intended. In case of fire where water evaporates, vapors may include nitrogen oxides, carbon monoxide, and carbon dioxide.</p> <p>11. TOXICOLOGICAL INFORMATION</p> <p>11.1 Information on toxicological effects: Acute Toxicity: Non-toxic – LD50 Oral – rat > 5g/kg Skin Corrosion / Irritation: Skin irritant Category 3. Serious eye damage/Irritation: Not an irritant Respiratory or Skin sensitization: Category 1. Germ Cell Mutagenicity: No data available. Carcinogenicity: No data available.</p>	<p>Reproductive toxicity: No data available. STOT – single exposure: No data available. STOT – repeated exposure: No data available. Aspiration Hazard: No data available. Germ Cell Mutagenicity: No data available. Carcinogenicity: No data available. Reproductive toxicity: No data available.</p> <p>12. ECOLOGICAL INFORMATION</p> <p>12.1 Toxicity: No data available.</p> <p>12.2 Persistence & Degradability: No data available.</p> <p>12.3 Bioaccumulative Potential: No data available.</p> <p>12.4 Mobility in Soil: No data available.</p> <p>12.5 Results of PBT and vPvB Assessment: This mixture does not meet the PBT/vPvB criteria of REACH, Annex XIII.</p> <p>12.6 Other adverse effects: No data available.</p> <p>13. DISPOSAL CONSIDERATIONS</p> <p>13.1 Waste treatment methods: Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated Packaging: Follow local regulations. European Waste Code: 16 03 05</p> <p>14. TRANSPORT INFORMATION</p> <p>14.1 UN Number: Not applicable.</p> <p>14.2 UN Proper Shipping Name: Not applicable.</p> <p>14.3 Transport hazard class: Not applicable.</p> <p>14.4 Packing Group: Not applicable.</p> <p>14.5 Environmental Hazards: Not a marine pollutant.</p> <p>14.6 Special Precautions for use: Not applicable.</p> <p>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.</p> <p>15. REGULATORY INFORMATION</p> <p>15.1 Safety, health, and environmental regulations/legislations specific to the substance or mixture:</p> <p>USA TSCA STATUS All ingredients are listed on TSCA inventory SARA TITLE III,302/303 EHS None SARA TITLE III,304,HS None SARA 311/312 None SARA TITLE III,313 None</p> <p>CANADA DSL All ingredients are listed WHMIS Classification D.2.B European Inventory of Existing Commercial Chemical Substances (EINECS) The components of this product are on the EINECS inventory or are exempt from inventory. Germany – Water Hazard Class I</p> <p>15.2 Chemical Safety Assessment No chemical safety assessment has been carried out by the manufacturer.</p> <p>16. OTHER INFORMATION</p> <p>Additional Information: The above information is believed to be accurate but International Products Corporation (IPC) does not claim it to be all inclusive. It should only be used as a guide. It is provided for the purpose of hazard communication. It does not represent any guarantee of the properties of the product.</p>
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