

Material Safety Data Sheet



Product: Enchant™ Albumin Depletion Binding/Wash Buffer

MSDS Date: 2-15-05
Product Name: Enchant™ Albumin Depletion Binding/Wash Buffer
Product Number: 5300-ALBDEP
Manufacturer: Pall Life Sciences

I. Product and Company Description

Pall Life Sciences
600 South Wagner Road
Ann Arbor, MI 48103-9019
USA

Emergency Phone Number/Product Information:
(800) 521-1520

II. Chemical Composition

| Component | CAS # | % Composition | EC # | Symbol | R Phrase |
|--------------|-------|---------------|-----------|--------|-----------|
| Ingredient 1 | NA | 0.1-1 | 201-064-4 | Xi | R36/37/38 |
| Ingredient 2 | NA | 0.1-1 | 231-598-3 | Xi | R36 |

III. Hazards Identification

Potential Health Effects:

Emergency Overview:

WARNING!

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
LUNGS, RESPIRATORY TRACT, SKIN, EYES, STOMACH.

Acute Eye:

May cause irritation.

Acute Skin:

Non-irritant.

Acute Inhalation:

May cause irritation to upper respiratory tract.

Acute ingestion:

Not expected to be a likely route of exposure during normal industrial use.

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Chronic effects:
None

IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure:

Immediately flush eyes with plenty of water. Get medical attention, if irritation persists. Remove contact lenses before flushing.

Skin Exposure:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation:

Remove to fresh air. If breathing has stopped, administer artificial respiration and supply oxygen. Seek medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: NA

Method Used: NA

Flammability Limits (vol/vol%): Lower: NA Upper: NA

Extinguishing Media:

Use dry chemical powder, water spray, fog, or foam.

Special Fire Fighting Procedures:

None

Unusual Fire and Explosion Hazards:

None

Hazardous Decomposition Materials (Under Fire Conditions):

None

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VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Protect skin and eyes from contact and avoid inhalation of vapors or mists. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. Dispose of materials according to the applicable Federal, State, or local regulations.

VII. Handling and Storage

Handling and Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Avoid breathing vapors or spray mists.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

| Component | ACGIH | NIOSH | OSHA-PELs |
|--------------|-------|-------|-----------|
| Ingredient 1 | NA | NA | NA |
| Ingredient 2 | NA | NA | NA |

Engineering Controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

Respiratory Protection:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.

Eye / Face Protection:

Wear appropriate safety glasses with side shields or chemical splash goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

Skin Protection:

When handling product, avoid prolonged or repeated contact with skin. Wear protective clothing to minimize contact.

IX. Physical and Chemical Properties

Physical Appearance: Clear liquid

Odor: Odorless

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| | |
|--|--|
| pH: | Neutral |
| Specific Gravity: | The only known value is 1 (Water = 1) |
| Water Solubility: | Easily soluble in cold water. Soluble in hot water. Partially soluble in acetone. Very slightly soluble in methanol. |
| Melting Point/Freezing Point Range: | May start to solidify at -0.1°C (31.8°F) based on data for: |
| Boiling Point: | The lowest known value is 100°C (212°F) |
| Vapor Pressure: | The highest known value is 2.3 kPa (@ 20°C) |
| Vapor Density: | The highest known value is 0.62 (Air = 1) |
| Evaporation Rate: | 0.36 compared to Butyl acetate. |
| Viscosity: | ND |

X. Stability and Reactivity

Chemical Stability:
Stable

Conditions to Avoid:
None

Materials / Chemicals to be Avoided:
None

Hazardous Decomposition Products:
None

Hazardous Polymerization:
Will not occur.

XI. Toxicological Information

Toxicity to Animals:
Hydrochloric Acid :
LD50: Not available.
LC50: Not available.

Chronic Effects on Humans:
Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eyes, and stomach.

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Other Toxic Effects on Humans:
Slightly hazardous in case of eye contact.

Special Remarks on Toxicity to Animals:
Not Available

Special Remarks on Chronic Effects on Humans:
None

Special Remarks on Other Toxic Effects on Humans:
To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

XII. Ecological Information

Ecotoxicological Information:
ND

Chemical Fate Information:
ND

XIII. Disposal Considerations

Waste Disposal Method:
Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

Container Handling and Disposal:
Dispose of container and unused contents in accordance with federal, state, and local regulations.

XIV. Transportation Information

US Department of Transportation Shipping Name:

| | | |
|--|-----------------------------|---------------|
| US Department of Transportation | Proper Shipping Name | Not Regulated |
| | Hazard Class | Not Regulated |
| | ID Number | Not Regulated |
| | Packaging Group | Not Regulated |
| | Label Statement | Not Regulated |

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XV. Regulatory Information

Federal Regulations:

SARA Title III:

SARA 302/304/311/312 extremely hazardous substances: No products were found

SARA 302/304 emergency planning and notification: No products were found

SARA 302/304/311/312 hazardous chemicals: No products were found

SARA 311/312 MSDS distribution - chemical inventory - hazard identification No products were found

Other Federal Regulations:

US FEDERAL

TSCA

All components of this product are listed on the TSCA inventory.

STATE

California prop. 65: No products were found.

International:

Australia (NICNAS): Ingredient 1 and 2

Korea (TCCL): Ingredient 1 and 2

Philippines (RA6969): Ingredient 1 and 2

Canada: CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CEPA DSL: Ingredient 1 and 2;

XVI. Other Information

National Fire Protection Association Hazard Ratings – NFPA(R):

Health Hazard: 0

Flammability: 0

Reactivity: 0

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

TLV – Threshold Limit Value

PEL – Permissible Exposure Limit

TWA – Time Weighted Average

STEL – Short Term Exposure Limit

NTP – National Toxicology Program

IARC – International Agency for Research on Cancer

The information contained herein is based on the data available to us and is believed to be correct. However Pall Life Sciences makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.