
Section 1 – Product and Company Information

Product Name: ADAPT- 3D Decalcification Buffer

Product Form: Mixture - This combined safety data sheet provides information Product Code (B670):

Company: Leinco Technologies, Inc
410 Axminister Drive
St. Louis, MO 63026 USA
Phone: 636-230-9477
Fax: 636-527-5545

Emergency Telephone: 636-230-9477
800-538-1145

Recommended Use: For In Vitro Diagnostic Use only

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

Section 2 – Hazardous Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Oral (H302)	: Category 4	Warning
Skin corrosion/irritation (H314)	: Category 1C	Danger
Serious eye damage/eye irritation (H318)	: Category 1	Danger
Serious eye irritation (H319)	: Category 2A	Warning
Acute toxicity, inhalation (H332)	: Category 4	Warning
Reproduction toxicity (H360)	: Category 1B	Danger
STOT-repeated exposure (H373)	: Category 2	Warning

2.2 GHS Label elements, including precautionary statements



Signal Word: Danger

Hazard Statements

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H360	May damage fertility of the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P314	Get medical advice/ attention if you feel unwell.
P363	Wash contaminated clothing before reuse.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3 – Composition/ Information on Ingredients

CAS No/Description: Refer to component SDS

Chemical Formula: Not applicable to mixtures. Trade secret formulation.

Section 4 – First Aid Measures

General: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the attending doctor.

	N-Methyldiethanolamine	N-Butyldiethanolamine	Water	Imidazole	EDTA (Ethylenediaminetetraacetic acid)
If inhaled:	After inhalation: fresh air.				After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
In case of skin contact:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.				
In case of eye contact:	After eye contact: rinse out with plenty of water. Call an ophthalmologist. Remove contact lenses.				
If swallowed:	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.				
Most important symptoms and effects, both acute and delayed:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.				
Indication of any immediate medical attention and special treatment needed:	No data available				

Section 5 – Fire Fighting Measures

Refer to component SDS

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Refer to component SDS

Section 7 – Handling and Storage

Advice on Safe Handling: Work under hood. Do not inhale substance/mixture.

Hygiene Measures: Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.

Storage Conditions: Tightly closed. Dry.

Storage Class:

Storage class (TRGS 510): 10: Combustible liquids (N-Methyldiethanolamine/N-Butyldiethanolamine)

Storage class (TRGS 510): 12: Non Combustible Liquids (Water)

Storage class (TRGS 510): 11: Combustible Solids (EDTA)

Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

Section 8 – Exposure Controls/Personal Protection

Refer to component SDS

Section 9 – Physical/Chemical Properties

Refer to component SDS

Section 10 – Stability and Reactivity

Refer to component SDS

Section 11 – Toxicological Information

Refer to component SDS

Section 12 – Ecological Information

Refer to component SDS

Section 13-Disposal Conditions

Waste treatment methods - all components	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.
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Section 14-Transport Information

	Imidazole
DOT (US)	UN number: 3263 Class: 8 Packing group: III Proper shipping name: Corrosive solid, basic, organic, n.o.s. (Imidazole) Reportable Quantity (RQ): Poison Inhalation Hazard: No
IMDG	UN number: 3263 Class: 8 Packing group: III EMS-No: F-A, S-B Proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Imidazole)
IATA	UN number: 3263 Class: 8 Packing group: III Proper shipping name: Corrosive solid, basic, organic, n.o.s. (Imidazole)
Further Information	

All other components:

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Further information: Not classified as dangerous in the meaning of transport regulations.

Special precautions for user: The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15-Regulatory Information

CERCLA Reportable Quantity

These materials do not contain any components with a CERCLA RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

These materials do not contain any components with a section 302 EHS TPQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

US State Regulations

US State Regulations		
Massachusetts Right To Know	N-butyl-N,N-bis(hydroxyethyl)amine	102-79-4
Massachusetts Right To Know	Water	7732-18-5
Massachusetts Right To Know	Imidazole	288-32-4
New Jersey Right To Know	Water	7732-18-5
Pennsylvania Right To Know	N-butyl-N,N-bis(hydroxyethyl)amine	102-79-4
Pennsylvania Right To Know	Water	7732-18-5
Maine Chemicals of High Concern	Water	7732-18-5
Maine Chemicals of High Concern	Imidazole	288-32-4
Vermont Chemicals of High Concern	Water	7732-18-5
Vermont Chemicals of High Concern	Imidazole	288-32-4
Washington Chemicals of High Concern	Water	7732-18-5
Washington Chemicals of High Concern	Imidazole	288-32-4

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the

threshold (De Minimis) reporting levels established by SARA Title III, Section 313

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

TSCA Inventory

- All substances listed as active on the TSCA inventory.
- No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Section 16-Other Information

Kit Components:

Item	CAS No:
EDTA (Ethylenediaminetetraacetic acid)	6381-92-6
Imidazole	288-32-4
N-Methyldiethanolamine	105-59-9
N-Butyldiethanolamine	102-79-4
Water	7732-18-5

Indication of changes:
Created:

New SDS
September 2025

Disclaimer: For Research Use Only. Not for drug, household, therapeutic, diagnostic or other uses.

Warranty: The above information is believed to be correct but does not purport to be all inclusive and shall

be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Leinco Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. Copyright 2012 Leinco Technologies, Inc. License granted to make unlimited paper copies for internal use only.