

MILLIPORE

Health, Safety & Environment

Montage™ PCR Cleanup Kit Tris Buffer Solution

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Millipore Corporation

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Bedford MA 01730

Information 781-533-2350

CHEMTREC Emergency Telephone Numbers:

United States 800-424-9300

International 703-527-3887 (collect)

PRODUCT: Montage PCR Cleanup Kit Tris Buffer Solution

TRADE NAMES/SYNONYMS:

Montage PCR₉₆ Cleanup Kit Tris Buffer Solution

Product Numbers: LSKC09601, LSKC09604, LSKC09624, LSKCTB500

MSDS Number: **M102214**

Issue Date: November 13, 2000

Rev. Date: October 30, 2008

Revision: **A**

SUBSTANCE IDENTIFICATION

SUBSTANCE: 10 mM (TRIS HCl) Aqueous Solution, pH 8.

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS No.	EINECS No.	Percent by Wt.
"TRIS HCl" – Tris (hydroxymethyl) aminomethane hydroxide Hydrochloride	77-86-1	201-064-4	<0.2
Sodium Hydroxide (pH adjustment)	1310-73-2	215-185-5	<0.1
Water	7732-18-5	231-791-2	Balance

SECTION 3 – HAZARD IDENTIFICATION EMERGENCY OVERVIEW:

Appearance: Colorless Liquid

Major Health Hazards: May cause eye irritation

Physical Hazards: Not expected to present a physical hazard.

Health Effects

Route of Entry Potential Health Effects and Symptoms of Exposure

Skin: Not expected to be a skin irritant.

Eyes: May cause eye irritation.

Ingestion: May cause digestive tract irritation if ingested in significant quantities

Inhalation: Not expected to be an inhalation hazard.

Target organs: None known

Medical Conditions: None known

Aggravated by Exposure:

SECTION 4 - FIRST AID

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur. .

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin: Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes)

Inhalation: Remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

SECTION 5 - FIRE FIGHTING MEASURES

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Extinguishing Media: Use media suitable for extinguishing surrounding fire.

Flash point: None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spills and Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

SECTION 7- HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes. Keep container tightly closed. Use with adequate ventilation.

Storage: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION 8 - PERSONAL PROTECTION AND EXPOSURE CONTROL

Ventilation: General ventilation should be adequate for the quantities found in this kit. If handling conditions are such that applicable exposure limits are exceeded, provide local exhaust ventilation.

Personal Protection: Wear safety glasses with side shields. Normally, gloves and protective clothing are not required when handling this solution. If danger of splashing exists, provide an emergency eye wash fountain and quick drench shower in the immediate work area

Respirator Use: Respirator use is typically not required. If mists can not be effectively controlled, wear a particulate filter approved under 42 CFR Part 84.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Colorless solution
Specific Gravity	1.00 – 1.01
Odor	Not available
Odor threshold	Not available
Water solubility:	soluble
pH	8
Melting Point	Essentially that of water
Boiling Point	Essentially that of water
Vapor Pressure	Essentially that of water
Vapor Density	Essentially that of water
Volatility	>99%
Evaporation Rate	Essentially that of water
Coefficient of water/oil distribution:	Not available

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and pressure.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Heat, and incompatible materials.

Incompatible with: Strong oxidizing agents, strong acids and strong bases.

Hazardous Decomposition Products: Small quantities of carbon monoxide, carbon dioxide, nitric oxide (NO_x), and ammonium chloride fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

Carcinogenicity: Tris (hydroxymethyl) aminomethane Hydroxide and sodium hydroxide are not listed as carcinogenic by IARC, NIOSH, NTP, or OSHA.

Acute Effects: Possible eye irritation

Exposure Limits:

<u>INGREDIENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Tris (hydroxymethyl) aminomethane hydroxide Hydrochloride	None listed	None listed

Toxicity Data:

Tris (hydroxymethyl) aminomethane hydroxide Hydrochloride (100%)

LD₅₀: Oral, rat: 5,900 mg/kg as Tris (hydroxymethyl) aminomethane hydroxide

SECTION 12 - ECOLOGICAL INFORMATION

No data is available on the Ecotoxicity or Environmental Fate of this solution

SECTION 13- DISPOSAL INFORMATION

Tris (hydroxymethyl) aminomethane hydroxide Hydrochloride is not a listed USEPA hazardous waste, and the solution does not exhibit the properties of a characteristic hazardous waste. Wastes should be disposed of in a manner consistent with federal, state and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Montage Plasmid PCR Cleanup Kit Tris Buffer Solution is not regulated by USDOT, ICAO/IATA, ADR or IMO as a hazardous material or dangerous goods.

SECTION 15 - REGULATORY INFORMATION

The components of this solution are listed on the Toxic Substances Control Act (TSCA) Chemical Inventory. See regulations in 40 CFR 700 for details.

California No significant Risk Level: None of the chemicals in this product are listed

European Labeling in Accordance with EC Directives:

Hazard Symbols: None applicable

Risk Phrases: None applicable

Safety Phrases: None applicable

This product has a WHMIS classification of Not Classified.

SECTION 16- ADDITIONAL INFORMATION

The chemical, physical and toxicological properties of this product have not been thoroughly investigated.

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