



Material Safety Data Sheet

MSDS/SDS Number: M115022
Issue Date: November 15, 2007
Latest Revision Date: November 13, 2008
Revision: A

SECTION 1 PRODUCT AND COMPANY INFORMATION

Trade Name: Buffer Solutions for Fast-Trap™ Adenovirus Purification and Concentration Kit

Catalogue Number(s): FTAV00003

Chemical Name: - -

Other trade names and synonyms: Equilibration Buffer / 10x Binding / Wash Buffer / Elution Buffer

Manufacturer/Distributor: Millipore Corporation (Corporate Headquarters) Millipore S.A.S. (European Headquarters)

Postal Address: 290 Concord Road Billerica MA, USA Boite Postale 116 67124 Molsheim Cedex, France

Telephone Number: +1-978-715-1335 +33(0)3 90 46 90 00

Email: msds@millipore.com

CHEMTREC Emergency Telephone Number: International +1-703-527-3887 (collect) North America 1-800-424-9300 (toll free)

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Component	EINECS or ELINCS No.	CAS No.	Content (weight percent)	Symbol letters*	R Phrases**
Tris-HCL	214-684-5	1185-53-1	3.4 - 31.7%	None	R:36/38
Sodium Chloride	231-598-3	7647-74-5	58.7 – 95.5%	None	R:36/38
Magnesium Chloride	232-094-6	7786-30-3	1.0 – 9.6 %	None	R:36/38

* Symbol letters and categories of danger: **T+** = Very toxic, **T** = Toxic, **C** = Corrosive, **Xn** = Harmful, **Xi** = Irritant, **E** = Explosive, **F+** = Extremely flammable, **F** = Very flammable, **N** = Dangerous for the environment, **O** = Oxidising.

** The full text of each phrase is listed in Section 16.

SECTION 3 HAZARD IDENTIFICATION / EMERGENCY OVERVIEW

Appearance: In solution, colorless liquid

Classification: None

Adverse human health effects: None expected

Contact with Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed

Inhalation (Short Term): Not expected to be an inhalation hazard.

Inhalation (Long Term): Not expected to be an inhalation hazard.

Skin Contact: May be harmful if absorbed through skin. May cause skin irritation.

Target Organs: None Known

Medical conditions aggravated by exposure: None Known

Adverse environmental effects: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Adverse physiochemical effects: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 4 FIRST AID MEASURES

Contact with Eyes: Rinse thoroughly with plenty of water for at least 15 minutes

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Inhalation: Not expected to be an inhalation hazard.

Skin Contact: Wash off with soap and plenty of water.

SECTION 5 FIRE FIGHTING MEASURES

Flash Ignition Temperature: None

Autoignition Temperature (ASTM D1929): None

Suitable extinguishing media: Use extinguishing media most appropriate for the surrounding fire

Unsuitable extinguishing media: None Known

Special protective equipment for firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn

Special exposure hazards: None Known

SECTION 6 ACCIDENTAL RELEASE

Personal precautions: Avoid contact with eyes, skin, and clothing

Small spills: Absorb material, then place into a suitable clean, dry, closed container for disposal

Large spills: Absorb material, then place into a suitable clean, dry, closed container for disposal

Environmental precautions: Isolate hazard area and deny entry. Keep unnecessary people away. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

Clean up measures: Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes.

Storage: Keep container tightly closed in a dry and well-ventilated place.

SECTION 8 EXPOSURE CONTROL AND PERSONAL PROTECTION

	Normal Handling Conditions	Emergency Response Conditions
Respiratory protection:	Respiratory protection is not required	Respiratory protection is not required
Ventilation:	Mechanical exhaust required.	Mechanical exhaust required.
Eye protection:	Safety glasses	Safety glasses
Skin protection:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless liquid

Odor: Not available

Odor Threshold: Not available

pH: 8

Melting Point: Essentially that of water

Boiling Point: Essentially that of water

Flash Ignition Point: None

Explosive Properties: None

Oxidizing Properties: None

Vapor pressure, 20 °C: None
Solubility: Soluble
Specific Gravity (Water = 1.0): Essentially that of water
Vapor Density, 20 °C: None
Viscosity, centipoise: Essentially that of water
Partition coefficient (n-octanol/water): Essentially that of water

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable under ordinary conditions of use and storage
Incompatible With: Strong oxidizing agents, strong acids and strong bases.
Hazardous Decomposition Products: Small quantities of carbon monoxide, carbon dioxide, and nitrogen oxides
Conditions to Avoid: Heat, and incompatible materials.
Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract
Ingestion: May be harmful if swallowed.
Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Carcinogenicity: None Known
Chronic Toxicity: None Known
Toxicology Data: To the best of our knowledge, toxicological properties have not been thoroughly investigated.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: No information found
Environmental Fate: No information found

SECTION 13 DISPOSAL INFORMATION

European Union: When disposal is required, this product should be considered according to the European Waste catalogue (European commission decision of 03/05/01 modifying directives 94/3/CE and 75/442/CE) as part of the

following category:

Other than Pharmaceutical MSFU	20 01 39 separately collected fractions, plastics
Pharmaceutical MSFU with residual dangerous substances	07 05 13* solid wastes containing dangerous substances
Pharmaceutical MSFU without residual dangerous substances	07 05 14 solid wastes other than those mentioned in 07 05 13

United States: Observe all federal, state, and local environmental regulations

SECTION 14 TRANSPORTATION INFORMATION

Not regulated

SECTION 15 REGULATORY INFORMATION

Australia	Hazchem Code:	None allocated
	Poisons Schedule Number:	None allocated
California	No Significant Risk Level:	None of the chemicals in this product are listed
Canada	WHMIS:	Not controlled
European Union	Symbols:	Not available
	Category of danger:	Not available
	Risk phrases:	Not available
	Safety phrases:	S26 S36
	OECD/High Production Volume (HPV) chemicals:	Not available
	WEEE:	Not available
	RoHS:	Not available
Japan	Poisonous and Deleterious Substances Control Law:	Not available
United Kingdom	Control of Substances Hazardous to Health Regulations 2002 (COSHH) Rating:	Not available
United States	Toxic Substances Control Act (TSCA):	Not Listed

Occupational Exposure Limits

Component	OSHA PEL	NIOSH REL	ACGIH TLV
Tris-HCL	None	None	None
Sodium Chloride	None	None	None

Magnesium Chloride None None None

SECTION 16 ADDITIONAL INFORMATION

Abbreviations Used

ACGIH	American Conference of Government Industrial Hygienists
ADR	European agreement on the international carriage of dangerous goods on road
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EPA	United States Environmental Protection Agency
IARC	International Agency for Research in Cancer.
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	Regulations regarding the transportation of dangerous goods on ocean-going vessels issued by the International Maritime Organization.
LC ₅₀	Lethal Concentration 50% is the concentration of a chemical which kills 50% of a sample population
LD ₅₀	Lethal Dose 50% is the dose of a chemical which kills 50% of a sample population.
LDLo	Lowest observed lethal dose
MSFU	Manufacture, Formulation, Supply and Use (Section 13)
NIOSH	National Institute of Occupational Safety and Health (US)
NTP	National Toxicology Program (US)
OSHA	United States Occupational Safety and Health Administration
RID	International regulations concerning the international carriage of dangerous goods by rail.
RTECS	Registry of Toxic Effects of Chemical Substances (US)
WHMIS	Workplace Hazardous Materials Information System (Canada)

This safety data sheet has been prepared to comply with the requirements of European Union Directive 2001/58/EC and ANSI Z400.1-1998.

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