

Material Safety Data Sheet

Date of Issuance: December 5, 2004

Section I - Substance Identity and Company Contact Information

Trade Name: Solution 3 or Buffer C of the Hurricane Maxi and Mini Plasmid Prep

Company Contact: Gerard Biotech LLC 20 West High Street Oxford, OH 45056

Telephone: 866-437-2735

Fax:

866-437-2899 Emergency:

CHEMTREC: 800-424-9300 (USA)

SECTION II: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: Aqueous solution of Potassium Acetate / Acetic Acid, Guanidine HCl.

HAZARDOUS COMPONENTS:

NAME: Acetic Acid.

MF: C2H402

CAS-NO.: 64-19-7

RTECS NO.: AF1225000

WARNING: Combustible (USA Definition), flammable (European Definition),

corrosive.

HEALTH HAZARD DATA: Harmful if swallowed, inhaled, or absorbed through skin. Material is destructive to tissue of mucous membranes and upper respiratory tract. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Material is destructive to eyes and skin.

TOXICITY: ORL-RAT LD50: 3310 mg/kg DMDJAP 31,276,59

IHL-MUS LD50: 56200 ppm/h MELAAD 48,559,57 IVN-MUS LD50: 525 mg/kg APTOA6 18,141,61 SKN-RBT LD50: 1060 mg/kg UCDS 8/7/63

SECTION III: HAZARD IDENTIFICATION

Corrosive. Causes burns. Harmful by inhalation and if swallowed. Irritating to the eyes and skin.



SECTION IV: FIRST AID MEASURES

General Information: Remove and wash contaminated clothing promptly.

IN CASE OF INHALATION: Supply fresh air and then consult a doctor.

IN CASE OF EYE CONTACT: Immediately flush eyes with copious amounts of water for at least 10 minutes.

IN CASE OF SKIN CONTACT: Immediately wash skin with soap and copious amounts of water.

IF SWALLOWED: Rinse mouth with copious amounts of water. Then consult a doctor.

SECTION V: FIREFIGHTING MEASURES

EXTINGUISHING AGENTS: Noncombustible. Use water or extinguishing media appropriate to surrounding fire conditions.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION VI: ACCIDENTAL RELEASE MEASURES

PRECAUTIONARY MEASURES: Wear self-contained breathing apparatus, chemical safety goggles, rubber boots, and heavy rubber gloves.

CLEAN-UP PROCEDURES: Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate area and wash

spill site after material pick-up is complete.

SECTION VII: HANDLING AND STORAGE

HANDLING: Corrosive solution. Avoid skin and eye contact.

STORAGE: Store tightly closed in a cool, dry place at room temperature. Avoid prolong exposure to air.

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

The routine precautionary measures for handling chemicals should be followed such as wearing chemical safety goggles, rubber gloves, rubber boots, NIOSH / MSHA-Approved respirator when handling chemicals and wash thoroughly after handling. Handle chemicals with care and avoid contact with eyes, skin, or on clothing. Use safety shower and eye bath as first aid measures if exposed to buffer C1.



SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE / FORM: Liquid

COLOR: Colorless ODOR: Characteristic

pH FACTOR: (20°C) 4.5-5.0 VISCOSITY: (20°C) N/A MELTING POINT: N/A BOILING POINT: N/A

IGNITION TEMPERATURE: N/A

FLASHPOINT: N/A

EXPLOSION LEVEL: LOWER: N/A

UPPER: N/A

VAPOR PRESSURE: (20°C) N/A SPECIFIC GRAVITY: (20°C) N/A

SOLUBILITY IN WATER: (20°C) Soluble

SECTION X: STABILITY AND REACTIVITY

SUBSTANCES TO BE AVOIDED: Metals, strong oxidizing agents, bases, chlorine trifluoride, nitric acid, acetaldehyde,

chlorosulfonic acid, oleum, bromine pentafluoride, perchloric acid, potassium tertbutoxide,

ethyleneimine, 2-aminoethanol, ethylene diamine, phosphorus trichloride, phosphorus isocyanate, chromic acid.

DANGEROUS REACTIONS: No dangerous reactions known.

HAZARDOUS, COMBUSTION, OR DECOMPOSITION PRODUCTS: Carbon

monoxide, irritating and toxic fumes and gases,

carbon dioxide.

SECTION XI: TOXICOLOGICAL INFORMATION

TOXICITY DATA: See Section II, Composition/Information on Ingredients.

ACUTE EFFECTS INHALATION: May be harmful by inhalation.

EYE CONTACT: Material is destructive to eyes.

SKIN CONTACT: Material is destructive to skin, harmful by skin absorption.

INGESTION: Harmful if swallowed. PROLONGED EXPOSURE: N/A

CHRONIC EFFECTS: N/A RTECS NUMBER: N/A

ADDITIONAL INFORMATION: The product should be handled with routine

precautionary measures for handling chemicals. Additional harmful properties cannot be

ruled out.



SECTION XII: ECOLOGICAL INFORMATION

No information available.

SECTION XIII: DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION XIV: TRANSPORT INFORMATION

Shipping Name: Acetic Acid

HAZARD CLASS: 8

IDENTIFICATION NUMBER: UN2789

PACKING GROUP: II

SECTION XV: REGULATORY INFORMATION

No information available.

SECTION XVI – Other Information

The information herein is provided in good faith but Gerard Biotech LLC makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of material by a properly trained person using this product. Gerard Biotech LLC shall not be liable for any damage resulting from handling or from contact with the above product. The statements contained here in are based upon technical data that Gerard Biotech LLC believes to be reliable, are offered for informational purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment, GERARD BIOTECH LLC MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.