

## Material Safety Data Sheet

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### Section I - Substance Identity and Company Contact Information

Trade Name: Solution 2 or Buffer B of the Hurricane Maxi and Mini Plasmid Prep

Company Contact:

Gerard Biotech LLC

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### SECTION II: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: Aqueous solution of Sodium Hydroxide (< 1%), Sodium Dodocyl Sulfate (< 2%).

HAZARDOUS COMPONENT: Sodium Hydroxide.

MF: NaOH

CAS-NO.: 1310-73-0

RTECS NO.: WB4900000

WARNING: Corrosive

HEALTH HAZARD DATA: Causes burns. Harmful by inhalation, in contact with skin, and if swallowed.

TOXICITY DATA: IPR-MUS LD50: 40 MG/KG COREAF 257, 791, 63

IRRITATION DATA: EYE-MKY 1%/24H SEV TXAPA9 6,701,64

SKN-RBT 500MG/24H SEV 28ZPAK-,7,72

EYE-RBT 400UG MLD OYYAA2 26,627,83

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

### 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 5 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 prolonged 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 chemicals.

## **SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE / FORM: Liquid

COLOR: Colorless

ODOR: Characteristic

pH-FACTOR: (20°C) 11.5-12.5

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**

Chemical Stability: Stable.

SUBSTANCES TO BE AVOIDED: Metals, acids.

DANGEROUS REACTIONS: No dangerous reactions known.

HAZARDOUS, COMBUSTION, OR DECOMPOSITION PRODUCTS: Toxic fumes of sodium oxide.

## **SECTION XI: TOXICOLOGICAL INFORMATION**

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

ACUTE EFFECTS INHALATION: May be harmful by inhalation.

EYE CONTACT: Causes eye irritation.

SKIN CONTACT: Causes skin irritation, may be harmful by skin absorption.

INGESTION: May be 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: Sodium hydroxide solution  
HAZARD CLASS: 8  
IDENTIFICATION NUMBER: UN1824  
PACKING GROUP: II

## **SECTION XV: REGULATORY INFORMATION**

No information available.

### **Section XVI – Other Information**

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