

# Material Safety Data Sheet

Date of Preparation: 9/3/04

Number of Pages: 3

## **Section 1 - Product and Company Information**

**Trade Name: PCR Compatible Lysis Buffer (Rapid Homogenization Kit: Plant Leaf DNA Amplification)**

**Synonyms: Plant Leaf Rapid Homogenization Kit Lysis Buffer**

Cartagen Molecular Systems, Inc.  
1102 Columbia Street, Suite 410  
Seattle, WA 98104

Telephone Number for Information: (206) 624-0940

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## **Section 2 - Composition / Information on Ingredients**

*Aqueous solution of proprietary compound mixture.*

Hazardous compounds:

*Name: Potassium Chloride*

CAS No. 7447-40-7

*Name: Triton X-100*

CAS No. 9002-93-1

Percentage: 0.1-2

## **Section 3 - Hazards Identification**

### **Emergency Overview**

Colorless liquid. Caution! May cause eye irritation.

**Target Organs:** None

### **Potential Health Effects**

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation

**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation. May cause gastric disturbances and electrolytic imbalance.

**Inhalation:** May cause respiratory tract irritation. Low hazard for usual industrial handling.

**Chronic:** No information found

## **Section 4 - First Aid Measures**

**In Case of Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains.

**In Case of Skin Contact:** Get medical aid at once. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

**If Ingested:** Do NOT induce vomiting and seek IMMEDIATE MEDICAL ADVICE. Give conscious victim large quantities of water to dilute acid.

**If Inhaled:** Get medical aid at once. Move victim to fresh air immediately. Give artificial respiration if necessary. Maintain airway, give oxygen (medical trained only), maintain blood pressure.

## **Section 5 - Fire Fighting Measures**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic

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gases may be generated by thermal decomposition or combustion. Move container if possible, cool with flooding amounts of water. Avoid breathing corrosive vapors, knock down with water spray. Vapors heavier than air, may travel considerable distance and flash back from source of ignition.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Flash Point:** Not applicable

**Autoignition Temperature:** Not applicable

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** (estimated) Health: 1, Flammability: 0, Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Use only in a well ventilated area. Avoid prolonged or repeated contact with skin.

**Storage:** Store in cool, dry area

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure Limits:** None listed.

**OSHA Vacated PELs:** None listed.

### **Personal Protective Equipment**

**Eyes:** Wear safety glasses and chemical goggles or face shield if handling liquids. Provide an eye-wash fountain in the immediate work area. Do not wear contact lenses when working with chemicals.

**Skin:** Wear acid protective clothing and gloves.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary. >100ppm- SCBAF:PD,PP; SAF:PD,PP,CF. m- CCROVF/GMOV/SAF/SCBAF. pm- SAF:PD,PP,CF. Escape- SCBA. Firefighting- SCBAF:PD,PP.

## Section 9 - Physical and Chemical Properties

**Physical State:** liquid

**Odor:** none reported

**Vapor Pressure:** Not available

**Evaporation Rate:** Not available

**Boiling Point:** Not available

**Decomposition Temperature:** Not available

**Specific Gravity/Density:** Not available

**Appearance:** clear

**pH:** slightly alkaline

**Vapor Density:** Not available

**Viscosity:** Not available

**Freezing/Melting Point:** Not available

**Solubility:** Soluble in water

**Molecular Formula:** mixture

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under recommended storage conditions.

**Conditions to Avoid:** Incompatible materials

**Incompatibilities:** Strong oxidizing agents, bromide trifluoride, potassium permanganate and sulfuric acid.

**Hazardous Decomposition Products:** Hydrogen chloride, chlorine, potassium fume.

**Hazardous Polymerization:** Has not been reported.

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## **Section 11 – Toxicological Information**

Molecular Formula: KCl

RTECS#: TS8050000

LD50/LC50: Draize test, rabbit, eye: 500 mg/24H Mild;

Oral, mouse: LD50 = 1500 mg/kg;

Oral, rat: LD50 = 2600 mg/kg;<BR.

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

Molecular Formula:  $C_{14}H_{22}O(C_2H_4O)_n$

RTECS#

LD50/LC50: Oral, rat LD50 = 1800 mg/kg

Inv, mus LD50 = 375 mg/kg

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

## **Section 12 - Ecological Information**

No data available.

## **Section 13 - Disposal Considerations**

Dispose of container, used, and unused contents in accordance with federal, state, or local requirements.

## **Section 14 – Transport Information**

DOT:

Proper Shipping Name: None

Non-hazardous for transport

IATA: Non-hazardous for transport

## **Section 15 – Regulatory Information**

Not available.

## **Section 16 – Other Information**

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