

Material Safety Data Sheet

Date of Preparation: 9/3/04

Number of Pages: 3

Section 1 - Product and Company Information

Trade Name: Buffer 1 (Genomic DNA Extraction Kit: Food Samples)

Synonyms: Food Sample Genomic DNA Isolation Kit Buffer 1

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

Telephone Number for Information: (206) 624-0940

Emergency Phone Number: (206) 624-0940

Fax: (206) 624-1184

Section 2 - Composition / Information on Ingredients

Aqueous solution of proprietary compound mixture.

Hazardous compounds:

Sodium Dodecyl Sulfate (SDS)

CAS No. 151-21-3

Percentage: 0.5-5%

Section 3 - Hazards Identification

Emergency Overview

Appearance: Clear liquid. **Caution!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation. This is expected to be a low hazard for usual industrial handling.

Target Organs: None.

Potential Health Effects

Eye: May cause eye irritation. Low hazard for normal industrial handling.

Skin: May cause skin irritation. Low hazard for usual industrial handling.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for usual industrial handling.

Inhalation: Low hazard for usual industrial handling. Inhalation of a mist of this material may cause respiratory tract irritation.

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 eyelids. If irritation develops, get medical aid.

In Case of Skin Contact: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

If Ingested: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Wash mouth out with water. Get medical aid if irritation or symptoms occur.

If Inhaled: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

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. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

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: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.

Storage: Store in a cool, dry place. No special precautions indicated. Keep containers tightly closed.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits: None listed

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

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.

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: 7.5

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 normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, excess heat

Incompatibilities: Strong oxidizing agents, strong acids, strong bases

Hazardous Decomposition Products: Nitrogen Oxides, carbon monoxide, carbon dioxide, irritating and toxic fumes and gases.

Hazardous Polymerization: Has not been reported.

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Section 11 – Toxicological Information

Molecular Formula: Solution

RTECS#: unlisted

LD50/LC50: Not available

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

Disclaimer: For R&D use only. Not for drug, household or other uses.

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