

**EPICENTRE Biotechnologies**  
**726 Post Road, MADISON WI 53713**  
**Emergency Tel: 608-258-3080 or 800-284-8474 8:00 AM-4:30 PM Central Time**

## MATERIAL SAFETY DATA SHEET

VERSION: 8/2010

### Section 1: Chemical Identification

Product name(s): Stop/Loading Buffer; Stop/Gel Loading Buffer, Stop/Loading Buffer for SequiTherm™ EXCEL™ II Kit, Stop/Loading Buffer for SequiTherm™ EXCEL™ II Long-Read LI-COR® Kit, Stop/Loading buffer for SequiTherm™ Kit; Stop/Loading Buffer (SequiTherm™ EXCEL™-LC), Stop/Loading Buffer (SequiTherm™ EXCEL II Premix-LC), Stop/Loading Buffer (SequiTherm™ EXCEL II Premix- ALF™), and Stop/Loading Buffer for SequiTherm™ EXCEL™ II DNA Sequencing Kits-LC for 66-cm gels and for 25-41 cm gels.

Catalog Numbers: S6501S, SF81015, SA85025, SEM79100, SE9202LC, and SE9101LC.

### Section 2: Composition and Information on Hazardous Ingredients

<u>Component</u>	<u>CAS No</u>	<u>% Wt</u>	<u>TLV-TWA</u>
Formamide	75-12-7	95	10 PPM

Formula: C<sub>1</sub>H<sub>3</sub>N<sub>1</sub>O<sub>1</sub>

Synonyms: Carbamaldehyde; Methananimide

### Section 3: Hazards Identification

May cause birth defects. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Target organs blood, eyes. If case of eye contact rinse with copious amounts of water. Seek medical advice. Wear suitable clothing, gloves and eye/face protection. Do not breathe vapor.

### Section 4: First Aid Measures

Remove from exposure. Flush from skin or eyes for at least 15 minutes with water. If irritation is evident or if ingested or inhaled, seek medical advice immediately. If exposed remove to fresh air if breathing, if not give artificial respiration. If breathing is difficult, give oxygen. Remove contaminated clothing and shoes and wash before reusing.

### Section 5: Fire Fighting Measures

Special Fire fighting Procedures: Wear self contained, breathing apparatus and protective clothing

Extinguishing media: water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Unusual fire and explosions hazards: Emits toxic fumes under fire conditions.

### Section 6: Accidental Release Measures

Wear appropriate, protective clothing including self-contained breathing apparatus, rubber boots and heavy chemical resistant gloves. Dike material with a suitable inert absorbent. Place in waste container. Avoid contact with skin and eyes. Ventilate area after spill. Dispose according to federal, state and local guidelines.

### Section 7: Handling and Storage

**Respiratory protection:** A qualified industrial hygienist should evaluate the need for respiratory protection. Use appropriate respiratory protection approved by NIOSH.

**Ventilation:** Mechanical (general) or local exhaust as needed.

**Personal Protective Equipment:** Protective gloves, safety glasses or goggles, and lab coat are recommended. Access to safety shower and eyewash.

**Work/Hygienic practices:** Note: Women of child-bearing age should minimize contact and exposure to STOP/LOADING BUFFER.

### Section 8: Exposure Controls/Personal Protection

Use appropriate respiratory protection approved by NIOSH.

Mechanical (general) or local exhaust as needed.

Protective gloves, safety glasses or goggles, and lab coat are recommended. Access to safety shower and eyewash. Categorized as a teratogen. Minimize contact with this material.

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### Section 9: Physical and Chemical Properties

Solubility: Soluble in water Boiling point: 210°C Vapor Pressure: 29.7 mM at 129°C

Appearance: STOP/LOADING Buffer is one of several vials contained in the kits named above and the only component in Stop/Loading Buffer. The Stop/Loading Buffer is a dark blue/red/or cranberry colored liquid, whereas the contents of the other vials are all clear, colorless liquids.

Flash Point..... 154°C for 100% formamide

Melting Point: 2-3°C Vapor density: 1.55 Specific Gravity: 1.134 Autoignition Temp: 499°C

Extinguishing Media Water, CO<sub>2</sub>, Dry chemicals

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### Section 10: Stability and Reactivity

Stability..... Stable. Store in cold. Avoid repeated freeze/thaw cycles

Incompatibility ..... Strong oxidizing agents, acids, bases

Hazardous decomposition products ..... CO, CO<sub>2</sub>, Nitrogen oxides

Hazardous polymerization..... Will not occur

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### Section 11: Toxicological Information

Effects of overexposure:

#### Irritation Data:

Irritates skin, eyes, upper respiratory tract and mucous membranes

May be absorbed through skin. Exposure can result in gastrointestinal disturbances.

Irritation eye-rabbit 100 mg severe AJOPAA 29,1363,46

#### Acute and Chronic Effects:

Has caused embryotoxicity and birth defects in animal studies.

May cause corneal clouding. Harmful if swallowed, inhaled or absorbed through skin.

**Target Organ Data:** Blood, eyes, and kidneys. May cause liver damage. Denatures proteins.

Fertility: Post implantation mortality

Embryo or fetus: fetotoxicity and fetal death

Specific developmental abnormalities: musculoskeletal system.

#### Toxicity Data:

LD50 oral rat: 5.57 g/kg

LD50 ipr rat: 5.7 g/kg

LD50 UNR rat: 3 g/kg

LD50 oral mouse: 3.15 g/kg

LD50 ipr mouse: 2.45 g/kg

LD50 ipr guinea pig: 1.25 g/kg

LD50 oral-MAM: 3.15 g/kg

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Listed in RTECS under LQ0525000

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## Section 12: Ecological Information

Ecological data not known.

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## Section 13: Disposal Considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

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## Section 14: Transport Information

No special considerations are known.

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## Section 15: Regulatory Information

NIOSH Air:10H TWA 10 PPM (SK) NIOSH\* DHHS #92-100,92  
NOHS 1974 HZD 84454: NIS 6: TNF 227; NOS 14; TNE 3195  
NOES 1983: HZD 84454: NIS 3; TNF 42; NOS 5: TNE 2724; FTE 556  
EPA Genetox program 1988, negative; ell transfor, -RLV F344 Rat embryo  
EPA TSCA chemical inventory 1993  
EPA TSCA 8(A) Preliminary assessment information, final rule FEREAC 47,26992,82  
EPA TSCA test submission (TSCATS) Data base, Sept. 1993.  
NTP carcinogenesis studies selected, Oct. 1993

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## Section 16: Other Information

The information herein is based on information from suppliers believed to be reliable; however, *EPICENTRE* makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. This document is offered solely as a guide for the customer's consideration, investigation and verification. These suggestions do not replace state, municipal and/or insurance requirements. Any use of this information must be determined by the user to be in accordance with applicable Federal, state and local regulations.