



Epigentek Group Inc  
760 Parkside Avenue  
Brooklyn, NY 11226  
Phone: 718-484-3990  
Fax: 718-484-3956  
www.epigentek.com

**MSDS Information for:**

**Cat# P-1014**

**Methylamp™ Global DNA Methylation Quantification Kit**

A Material Safety Data Sheet (MSDS) for the product as a whole is not required, as it is a kit consisting of individual components.

The following components are defined as hazardous (See MSDS page).

**GM7** (developing solution)

**GM8** (stop solution)

The following components are defined as non-hazardous and do not require MSDS. The products do not contain any hazardous components above 1% or any carcinogens above 0.1% as defined in 29 CFR 1910. 1200, the OSHA Hazard Communication Standard.

**GM1** (10 X wash buffer)

**GM2** (DNA binding solution)

**GM3** (methylated DNA control, 20 µg/ml)\*

**GM4** (block solution)

**GM5** (capture antibody, 100 µg/ml)\*

**GM6** (detecting antibody, 100 µg/ml)\*

8 well assay strips

Frame

Instructions

## Material Safety Data Sheet

### Section 1. Identification

<b>Product Name</b>	Methylamp™ Global DNA Methylation Quantification Kit
<b>Product No.</b>	P-1014
<b>Supplier</b>	Epigentek Group Inc. 760 Parkside Ave. Brooklyn, NY 11226
<b>In Case of Emergency</b>	718-484-3990

### Section 2. Composition, Information on Ingredients

**Ingredient Name**

**GM7** (developing solution) ingredient 1

### Section 3. Hazards Identification

Label precautionary statements. Irritating to eyes, respiratory system and skin.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing.

#### **Section 4. First Aid Measures**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

#### **Section 5. Fire Fight Measures**

**Extinguishing Media:** Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

**Special Firefighting Procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosion Hazards:** Emits toxic fumes under fire conditions.

#### **Section 6. Accident Release Measures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

#### **Section 7. Handling and Storage**

Product must be refrigerated at 2 – 8°C (36 – 46°F). Keep in a tightly closed container. Protect against physical damage. Handle and store under nitrogen. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

#### **Section 8. Exposure Control and Personal Protection**

Safety shower and eye bath.

Mechanical exhaust required.

Wash thoroughly after handling.

Avoid contact with eyes, skin and clothing.

Avoid prolonged or repeated exposure.

Niosh/msha-approved respirator.

Compatible chemical-resistant gloves.

Chemical safety goggles.

Keep tightly closed.

Handle and store under nitrogen.

Refrigerate.

Light and moisture sensitive.

#### **Section 9. Physical and Chemical Properties**

**Appearance:** Liquid

**Boiling Point:** 168 – 169°C (257 – 266°F)

**Melting Point:** 166°C (108 – 109°F)

Vapor Pressure (mm Hg): No information found.  
Evaporation Rate (BuAc=1): No information found.

## Section 10. Stability and Reactivity

Stability: Stable  
Incompatibilities: Avoid contact with metals.  
Hazardous Combustion Products: Carbon monoxide, carbon dioxide nitrogen oxides  
Hazardous Polymerization: Will not occur.

## Section 11. Toxicological Information

lpr-mus Id50: 135 mg/kg  
Orl-qal Id50: >316 mg/kg

## Section 12. Ecological Information

No information available.

## Section 13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14. Transport Information

No information available

## Section 15. Regulatory Information

US FEDERAL Listed on the TSCA inventory.

## Section 16. Other Information

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.*

# Material Safety Data Sheet

## Section 1. Identification

Product Name Methylamp™ Global DNA Methylation Quantification Kit  
Product No. P-1014  
Supplier Epigentek Group Inc.  
760 Parkside Ave.  
Brooklyn, NY 11226

In Case of Emergency 718-484-3990

## Section 2. Composition, Information on Ingredients

### Ingredient Name

GM8 (stop solution)

## Section 3. Hazards Identification

Label precautionary statements

Toxic

Toxic by inhalation

Causes burns

Irritating to respiratory system

Toxic if ingested

Eye contact may cause severe burns

## Section 4. First Aid Measures

**Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion:** Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## Section 5. Fire Fight Measures

**Fire:** Not considered to be a fire hazard. May react with metals or heat to release flammable hydrogen gas.

**Explosion:** Not considered to be an explosion hazard.

**Fire Extinguishing Media:** Water or water spray. Neutralize with soda ash or slaked lime.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

## Section 6. Accident Release Measures

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

**Spills/Leaks:** Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Absorb onto vermiculite and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

## Section 7. Handling and Storage

**Handling:** Wear appropriate NIOSH/MSHA approved respirator, chemical resistant gloves, safety goggles and other protective clothing. Mechanical Exhaust required.

**Storage:** Store in a cool, dry place. Store in a tightly closed container

## Section 8. Exposure Control and Personal Protection

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

**Eye:** Wear safety glasses and chemical goggles if splashing is possible

**Skin:** Wear appropriate protective gloves to prevent skin exposure

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

**Respirators:** Following the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149.

## Section 9. Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Clear colorless

**Solubility:** Infinitely soluble.

**Density:** 1.05 @ 15°C (59°F)

**pH:** 2.02 (0.01 N)

**% Volatiles by volume @ 21°C :** 100

**Boiling Point:** 101 – 103°C (214 – 217°F)

**Melting Point:** No information found.

**Vapor Density (Air=1):** No information found.

**Vapor Pressure (mm Hg):** No information found.

**Evaporation Rate (BuAc=1):** No information found.

## Section 10. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** When heated to decomposition, emits toxic hydrogen chloride fumes and will react with water or steam to produce heat and toxic and corrosive fumes. Thermal oxidative decomposition produces toxic chlorine fumes and explosive hydrogen gas.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** A strong mineral acid, concentrated hydrochloric acid is highly reactive with strong bases, metals, metal oxides, hydroxides, amines, carbonates and other alkaline materials. Incompatible with materials such as cyanides, sulfides, sulfites, and formaldehyde.

**Conditions to Avoid:** Heat, direct sunlight.

## Section 11. Toxicological Information

Hydrochloric acid: Inhalation rat LC50: 3124 ppm/1H; Oral rabbit LD50: 900 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector.

Ingredient	---NTP Carcinogen---		
	Known	Anticipated	IARC Category
Hydrogen Chloride (7647-01-0)	No	No	3
Water (7732-18-5)	No	No	None

## Section 12. Ecological Information

No information available

## Section 13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations

#### **Section 14. Transport Information**

No information available

#### **Section 15. Regulatory Information**

Chemical Inventory Status

Ingredient	TSCA	EC	Japan	Australia
Hydrogen Chloride (7647-01-0)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

#### **Section 16. Other Information**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.*