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MSDS Information for:  
Cat# P-3010

### EpiQuik™ DNMT Activity/Inhibition Assay Ultra Kit (Fluorometric)

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).

**MK3** (Adomet, 50X)\*  
**MK8** (Fluoro Developer)\*

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.

<b>MK1</b> (10X Wash Buffer)	14 ml	28 ml	4°C
<b>MK2</b> (DNMT Assay Buffer)	4 ml	8 ml	RT
<b>MK4</b> (DNMT Enzyme Control, 50 µg/ml)*	6 µl	12 µl	-20°C
<b>MK5</b> (Capture Antibody, 1000 µg/ml*)	5 µl	10 µl	4°C
<b>MK6</b> (Detection Antibody, 400 µg/ml)*	6 µl	12 µl	-20°C
<b>MK7</b> (Enhancer Solution)*	6 µl	12 µl	-20°C
<b>MK9</b> (Fluoro Enhancer)*	6 µl	12 µl	4°C
<b>MK10</b> (Fluoro Dilutor)	4 ml	8 ml	RT
8-Well Assay Strips (With Frame)	6	12	4°C
Adhesive Covering Film	1	1	RT

## Material Safety Data Sheet

### Section 1. Identification

**Product Name** EpiQuik™ DNMT Activity/Inhibition Assay Ultra Kit (Fluorometric)  
**Product No.** P-3010  
**Supplier** Epigentek Group Inc.  
110 Bi County Blvd. Ste 122  
Farmingdale, NY 11735  
Phone: 631-755-0888  
Fax: 718-484-3956  
**In Case of Emergency** 631-755-0888

## Section 2. Composition, Information on Ingredients

### Ingredient Name

MK3 (Adomet, 50 X) ingredient 1

Cas# 7647-01-0

## 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 facepiece 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 (59F)

**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.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient                      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*

# Material Safety Data Sheet

## Section 1. Identification

**Product Name** EpiQuik™ DNMT Activity/Inhibition Assay Ultra Kit (Fluorometric)

**Product No.** P-3010

**Supplier** Epigentek Group Inc  
110 Bi County Blvd. Ste 122  
Farmingdale, NY 11735  
Phone: 631-755-0888  
Fax: 718-484-3956  
www.epigentek.com

**In Case of Emergency** 631-755-0888

## Section 2. Composition, Information on Ingredients

### Ingredient Name

**MK8** (Fluoro Developer)\*

Cas# 67-68-5

## Section 3. Hazards Identification

**Hazards** May be harmful by inhalation, ingestion or skin absorption. Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract. Causes skin irritation. May cause allergic respiratory and skin reactions.

**Chronic Effects** Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

## Section 4. First Aid Measures

If ingested, wash out mouth with water. Call a physician. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes, assure adequate flushing by separating the eyelids with fingers.

## Section 5. Fire Fight Measures

<b>Extinguishing Media</b>	Water spray, carbon dioxide, dry chemical powder, polymer foam
<b>Autoignition Temperature:</b>	Not applicable
<b>Flash Point</b>	Not available
<b>Explosion Limits</b>	Not available

## Section 6. Accident Release Measures

<b>General Information</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks</b>	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

<b>Handling</b>	Wear appropriate NIOSH/MSHHA approved respirator, chemical resistant gloves, safety goggles and other protective clothing. Mechanical Exhaust required.
<b>Storage</b>	Store in a cool, dry place. Store in a tightly closed container

## Section 8. Exposure Control and Personal Protection

<b>Engineering Controls</b>	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits
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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 faint yellow
Odor	distinct garlic
pH	Not determined
Vapor Pressure	0.42 mmhg
Viscosity	0.002 pas
Vapor Density	2.7g/L
Boiling Point	189°C
Freeze/Melting Point	Not applicable
Specific Gravity/Density	1.1

## Section 10. Stability and Reactivity

Chemical Stability	Stable under normal handling procedures.
Incompatibilities	Acid chlorides, phosphorous halides, strong acids, strong oxidizing agents and strong reducing agents
Decomposition Products	Toxic fumes of: carbon dioxide, nitrogen oxides and sulfur oxides
Hazardous Polymerization	Has not been reported.

## Section 11. Toxicological Information

RTECS#	PV6210000
LD50/LC50	Oral, rat: LD50 = 14500 mg/kg
Carcinogenicity	Not listed by OSHA, ACGIH, IARC, NTP

## 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.
Hazard Symbols:	Xi

## 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.*