

Epigentek Group Inc

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MSDS information for:

Cat. #P-4034

# Epigenase™ HDAC Activity/Inhibition Direct Assay Kit (Colorimetric)

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)

SS (stop solution)
HI (HDAC Inhibitor TSA, 100 µM)\*

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>WB</b> (10X Wash Buffer)
HO1 (HDAC Assay Buffer)
HO2 (HDAC Substrate, 50 μg/ml)*
HO3 (HDAC Assay Standard, 50 μg/ml)*
HO4 (Capture Antibody, 1000 μg/ml*)
HO5 (Detection Antibody, 400 μg/ml)*
HI (HDAC Inhibitor TSA, 100 μM)*
DS (developing solution)
8-well Assay Strips (With Frame)
Adhesive Covering Film
User Guide

# Material Safety Data Sheet

Section 1. Identification

Product Name Epigenase™ HDAC Activity/Inhibition Direct Assay Kit (Colorimetric)

Product No. P-4034

Supplier Epigentek Group Inc

110 Bi County Blvd. Ste 122 Farmingdale, NY 11735

# Section 2. Composition, Information on Ingredients

#### Ingredient Name

SS (stop solution)
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. Structural firefighter's protective

clothing is ineffective for fires involving hydrochloric acid.

#### 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/MSHHA 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

None

formaldehyde.

Conditions to Avoid: Heat, direct sunlight.

## Section 11. Toxicological Information

Water (7732-18-5)

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

No

\Cancer Lists\						
NTP Carcinogen						
Ingredient	Known	Anticipate	ed	IARC Category		
Hydrogen Chloride (7647-01	-O)	No	No	3		

No

# 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

#### Section 1. Identification

Product Name Epigenase™ HDAC Activity/Inhibition Direct Assay Kit (Colorimetric)

Product No. P-4034

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

**HI** (HDAC Inhibitor TSA, 100  $\mu$ M)\* Cas# 58880-19-6

## Section 3. Hazards Identification

2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Skin sensitisation (Category 1), H317

Specific target organ toxicity - single exposure (Category 3),

Respiratory system, H335

### Section 4. First Aid Measures

- 4.1 Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# Section 5. Fire Fight Measures

- 5.1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx) 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. 5.4 Further information No data available

### Section 6. Accident Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13

# Section 7. Handling and Storage

7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

- 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature -20 °C Storage class (TRGS 510): Non Combustible Solids
- 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# Section 8. Exposure Control and Personal Protection

- 8.1 Control parameters Components with workplace control parameters Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection Complete suit protecting against chemicals,

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.

## Section 9. Physical and Chemical Properties

- 9.1 Information on basic physical and chemical properties
- a) Appearance Form: solid
- b) Odour No data available
- c) Odour Threshold No data available
- d) pH No data available
- e) Melting point/freezing point No data available
- f) Initial boiling point and boiling range No data available
- g) Flash point No data available
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits No data available
- k) Vapour pressure No data available
- 1) Vapour density No data available
- m) Relative density No data available n) Water solubility No data available
- o) Partition coefficient: noctanol/water No data available
- p) Auto-ignition temperature No data available
- q) Decomposition temperature No data available
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

# Section 10. Stability and Reactivity

- 10.1 Reactivity No data available
- 10.2 Chemical stability Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid No data available
- 10.5 Incompatible materials Oxidizing agents
- 10.6 Hazardous decomposition products Other decomposition products No data available

# Section 11. Toxicological Information

# 11.1 Information on toxicological effects

Acute toxicity No data available

Inhalation: No data available No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation

Germ cell mutagenicity Rat Embryo DNA inhibition

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available No data available

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available

# 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

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consequential or exemplary damages, possibility of such damages.	howsoever arising, e	even if the company has	been advised of the