



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

MSDS information for:

Cat. #P-4036

**Epigenase™ Universal SIRT Activity/Inhibition Assay 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)

SS (stop solution)

TSA (HDAC Inhibitor, 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.

WB (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)*
DS (developing solution)
NAD (SIRT Co-factor, 50 X)*
TSA (HDAC Inhibitor, 100 µM)*
8-well Assay Strips (With Frame)
Adhesive Covering Film
User Guide

## Material Safety Data Sheet

## Material Safety Data Sheet

### Section 1. Identification

Product Name                    **Epigenase™ Universal SIRT Activity/Inhibition Assay Kit**

Product No.                    P-4036

**Supplier**                    **Epigentek Group Inc**  
110 Bi County Blvd. Ste 122  
Farmingdale, NY 11735

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

## **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/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.

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

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
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*

## Section 1. Identification

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

**Product No.** P-4035

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

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

## Section 2. Composition, Information on Ingredients

## Ingredient Name

HI (HDAC Inhibitor TSA, 100 µM)\*

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

l) 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**

*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.*