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MSDS Information for:
Cat# P-4037

Epigenase™ Universal SIRT Activity/Inhibition Direct 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).

FD (Fluoro Developer)*
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.

| |
|--------------------------------------|
| 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)* |
| HI (HDAC Inhibitor TSA, 100 µM)* |
| FD (Fluoro Developer)* |
| FE (Fluoro Enhancer)* |
| DB (Dilution Buffer) |
| 8-Well Assay Strips (With Frame) |
| Adhesive Covering Film |
| User Guide |

Material Safety Data Sheet

Section 1. Identification

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

Product No. P-4037

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In Case of Emergency 631-755-0888

Section 2. Composition, Information on Ingredients

Ingredient Name

F4(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

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

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 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.

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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

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Section 14. Transport Information

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Section 15. Regulatory Information

US FEDERAL listed on the TSCA inventory.

Section 16. Other Information

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