

# **SAFETY DATA SHEET Epigenetics Screening Library (96-Well)**

Page: 1 of 5

Revision: 06/13/2018 Supersedes Revision: 04/24/2015

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

**1.1 Product Code:** 11076

**Product Name:** Epigenetics Screening Library (96-Well)

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

# Section 2. Hazards Identification

#### 2.1 Classification of the Substance or Mixture:

Flammable Liquids, Category 4

2.2 Label Elements:

GHS Signal Word: Warning

GHS Hazard Phrases:
H227: Combustible liquid.
GHS Precaution Phrases:

P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

**GHS** Response Phrases:

No phrases apply.

**GHS Storage and Disposal Phrases:** 

Please refer to Section 7 for Storage and Section 13 for Disposal information.

**2.3** Adverse Human Health DMSO has the potential to carry toxic materials or materials of unknown toxicity into the body.

**Effects and Symptoms:** DMSO is readily absorbed through skin.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

# Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	Compound for Epigenetics Screening Library	< 1.5 %	NA NA	No data available.
67-68-5 PV6210000	Dimethyl sulfoxide, anhydrous	>98.5 %	200-664-3 NA	Flam. Liq. 4: H227

Multi-region format

SAFETY DATA SHEET Page: 2 of 5



**Epigenetics Screening Library (96-Well)** 

Revision: 06/13/2018 Supersedes Revision: 04/24/2015

# Section 4. First Aid Measures

4.1 **Description of First Aid** 

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

Wash out mouth with water provided person is conscious. Never give anything by mouth to an In Case of Ingestion:

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

4.2 Important Symptoms and Exposure may cause: hematuria or shortness of breath (dyspnea).

Exposure may cause: gastrointestinal irritation with nausea, vomiting, diarrhea, headache, Effects, Both Acute and

dizziness, and drowsiness. Delayed:

Eye contact may cause blurry vision, burning sensation, redness, tearing, and vasodilation.

# Section 5. Fire Fighting Measures

5.1 Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Suitable Extinguishing

Use water spray to cool fire-exposed containers. Media:

Unsuitable Extinguishing A solid water stream may be inefficient.

5.2 Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.

Hazards: Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Sensitive to static discharge.

No data available.

Flash Pt: 89.00 C Method Used: Closed Cup

**Explosive Limits:** LEL: 3.5% at 25.0 C UEL: 42.0% at 25.0 C

215.00 C **Autoignition Pt:** 

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

Note: Combustible as diluted in dimethyl sulfoxide

## Section 6. Accidental Release Measures

6.1 **Protective Precautions,** Avoid breathing vapors and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:** 

6.2 **Environmental** Take steps to avoid release into the environment, if safe to do so.

**Precautions:** 

6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:



# **Epigenetics Screening Library (96-Well)**

Revision: 06/13/2018 Supersedes Revision: 04/24/2015

Section 7. Handling and Storage

**7.1 Precautions To Be Taken** Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.

7.2 Precautions To Be Taken Keep away from heat, sparks, and flame.

in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

Other Precautions: Hygroscopic

# Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

**Respiratory Equipment** NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower.

Wash thoroughly after handling.

No data available.

# Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor: No data available.

pH: No data.Melting Point: No data.Boiling Point: No data.

Flash Pt: 89.00 C Method Used: Closed Cup

**Evaporation Rate:** No data.

Flammability (solid, gas): No data available.

**Explosive Limits:** LEL: 3.5% at 25.0 C UEL: 42.0% at 25.0 C

Vapor Pressure (vs. Air or mm 0.37 MM\_HG at 20.0 C

Hg):

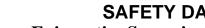
Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Octanol/Water Partition No data.

Coefficient:



SAFETY DATA SHEET **Epigenetics Screening Library (96-Well)** 

Revision: 06/13/2018

Page: 4 of 5

Supersedes Revision: 04/24/2015

Autoignition Pt: 215.00 C **Decomposition Temperature:** No data. Viscosity: No data.

9.2 Other Information

> Percent Volatile: No data.

# Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [ ] Stable [X]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Polymerization: Will not occur [X] Will occur [ ]

10.4 **Conditions To Avoid:** heat, flames, and sparks

10.5 Incompatibility - Materials acid chlorides

> phosphorus halides To Avoid:

> > strong acids alkali metals

strong oxidizing agents strong reducing agents

10.6 Hazardous carbon monoxide

> carbon dioxide **Decomposition or** sulfur oxides **Byproducts:**

### Section 11. Toxicological Information

The toxicological effects of this product have not been thoroughly studied. 11.1 Information on

DMSO - Toxicity Data: Oral LD50 (rat): 14,500 mg/kg; Skin LD50 (rat): 40,000 mg/kg; Oral LD50 **Toxicological Effects:** 

(mouse): 7,920 mg/kg; Skin LD50 (mouse): 50,000 mg/kg; Skin TDLO (woman): 1,800 mg/kg;

DMSO - Investigated as a drug, mutagen, primary irritant, reproductive effector, and tumorigen.

Inhalation LC50 (rat): >1,600 mg/m3 (4h);

DMSO - Irritation Data: Eyes (rabbit): 100 mg mild; Skin (rabbit): 500 mg (24h) mild;

**Chronic Toxicological** 

Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

DMSO RTECS Number: PV6210000

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
NA	Compound for Epigenetics Screening Library	n.a.	n.a.	n.a.	n.a.
67-68-5	Dimethyl sulfoxide, anhydrous	n.a.	n.a.	n.a.	n.a.

# Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

12.3 Bioaccumulative No data available.

Potential:

12.4 **Mobility in Soil:** No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

12.6 Other adverse effects: No data available.



# **SAFETY DATA SHEET Epigenetics Screening Library (96-Well)**

A SHEET Page: 5 of 5

Supersedes Revision: 04/24/2015

Revision: 06/13/2018

# Section 13. Disposal Considerations

**13.1** Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

# Section 14. Transport Information

### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Combustible liquid, n.o.s.

DOT Hazard Class:

UN/NA Number: NA1993 Packing Group: III

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: 1993 Packing Group: III

**Hazard Class:** 

#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Transport in accordance with local, state, and federal regulations.

Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of

E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

# Section 15. Regulatory Information

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	Compound for Epigenetics Screening Library	No	No	No
67-68-5	Dimethyl sulfoxide, anhydrous	No	No	No
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
NIA.	Open and the Friedrick Constitution Library	CAALLAD ODG: No. OWA NDDEG: No. TOGA: No. CA		

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
NA	Compound for Epigenetics Screening Library	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
67-68-5	Dimethyl sulfoxide, anhydrous	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

**Statement:** No.1272/2008.

# Section 16. Other Information

**Revision Date:** 06/13/2018

Additional Information About No data available.

This Product:

**Company Policy or Disclaimer:** DISCLAIMER: This information 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.