# SAFETY DATA SHEET

Date Revised: Sep 6, 2021

# **SECTION 1: Product and Company Identification**

Product Name: Live & DeadTM Viability/Cytotoxicity Assay Kit for Animal Cells (Calcein AM, EthD-1)[Calcein AM (4 mM in

anhydrous DMSO)]

Catalog Number: L6023S,L6023M,L6023L

Manufacturer/Supplier:

UElandy (Suzhou) Co., Ltd.

Room 302-1, Building 1, No.18 Chunyao Road, Caohu Industrial Park, Xiangcheng District, Suzhou, P.R. China

Phone: 86-512-69571710, mailbox:service@uelandy.com

Web: http://www.uelandy.com

### **SECTION 2: Hazards identification**

Classification according to Regulation (EC) No 1272/2008[CLP]

None

Classification according to Directive 1999/45/EC

None

Labeling according to Regulation (EC) No 1272/2008[CLP]

Hazard pictogram

None

Signal word None

Hazard statements None

**Precautionary statements** None

**HMIS Classification** 

Health hazard: 0 Flammability: 2 Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 2

Reactivity Hazard: 0

### **SECTION 3: Composition/information on ingredients**

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to regulation (EC)No1278/2008
DMSO	67-68-5	200-664-3		95-100	NA

# **SECTION 4: 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

Flush eyes with water as a precaution.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# **SECTION 5: Firefighting measures**

# Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

# Special protective equipment for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

### **SECTION 6: Accidental release measures**

#### Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

### **SECTION 7: Handling and storage**

# Precautions for safe handling

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store at -20°C.

## **SECTION 8: Exposure controls/personal protection**

### Components with workplace control parameters

Substance Dimethylsulfoxide

CAS no. 67-68-5

country	Austria	Belgium	Denmark	European Union	France	Germany
Limit value,8hours	160mg/m3	-	160mg/m3	-	-	160mg/m3
Limit value, short term	-	-	320mg/m3	-	-	320mg/m3

country	Hungary	Italy	Poland	Spain	Sweden	Netherland	United
						S	Kingdom
Limit	-	-	-	-	160mg/m3	-	-
value,8hours							
Limit value,	-	-	-	-	500mg/m3	-	-
short term							

country	United	USA-	USA-	Australia	Canada	Japan	South
	Kingdom	NIOSH	OSHA				Korea
Limit	-	-	-	-	-	-	-
value,8hours							
Limit value,	-	-	-	-	-	-	-
short term							

### Personal protective equipment

### **Hand 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.

# Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Hygiene measures

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

# **SECTION 9: Physical and chemical properties**

Chemical Name	Calcein AM (4 mM in anhydrous DMSO)
Appearance	Liquid
Odor	No data available
Odor threshold	No data available
pН	No data available
Melting point/freezing point	No data available
Boiling point	No data available
Flash point	No data available
Evaporate rate	No data available
Flammability	No data available
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Water soluble
Partition coefficient:n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

# **SECTION 10: Stability and reactivity**

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

Live & DeadTM Viability/Cytotoxicity Assay Kit for Animal Cells

#### Materials to avoid

No data available

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

# **SECTION 11: Toxicological information**

**Acute toxicity DMSO** 

**Oral LD50** rat - 14,500 mg/kg

**Inhalation LC50** Inhalation - rat - 4 h - 40250 ppm

**Dermal LD50** rabbit - > 5,000 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation no data available

**Serious eye damage/eye irritation** no data available **Respiratory or skin sensitization** no data available

**Germ cell mutagenicity** Salmonella typhimurium assay (Ames test): negative (+/- activation),

DMSO is used as a neutral solvent in the Ames mutagen test

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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** Not considered to be directly embryotoxic and has been shown to be a successful cryoprotectant for

mammalian semen and embryos

 $Specific \ target \ organ \ toxicity \ \hbox{-} \ single \ exposure \ (Globally \ Harmonized \ System)$ 

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

#### **Aspiration hazard**

no data available

### Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

### **Additional Information**

RTECS: PV6210000 (DMSO)

### **SECTION 12: Ecological information**

**Toxicity DMSO** The LC50(96hrs) for ten species of fish range from 32500 to 43000ppm

Persistence and degradability no information available

**Biodegradation** no information available **Mobility in soil** no information available

Results of PBT and vPvB assessment no information available

Other adverse effects no information available

Additional information no information available

### **SECTION 13: Disposal considerations**

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

# **SECTION 14: Transport information**

IATA, IMDG, DOT (US) not dangerous good during transportation

UN number none

UN proper shipping name none

Transport hazard class none

Packing group none

Environmental hazards none
Special precaution for user none

# **SECTION 15: Regulatory information**

**US Federal Regulations** 

US Toxic Substances Control Act (TSCA): Not listed

SARA 302: No chemicals were found. SARA 313: No chemicals were found.

SARA 311/312 Hazards: No chemicals were found.

# **SECTION 16: Other information**

Reason for revision SDS sections updated

Version no.

For research use only. Not for use in diagnostic procedures.

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. UElandy (Suzhou) shall not be held liable for any damage resulting from handling or contact with the above product.

# SAFETY DATA SHEET

Date Revised: Sep 6, 2021

# **SECTION 1: Product and Company Identification**

Product Name: Live & DeadTM Viability/Cytotoxicity Assay Kit for Animal Cells (Calcein AM, EthD-1)[Ethidium

homodimer-1(EthD-I)(2 mM in DMSO/H2O 1:4(v/v))

Catalog Number: L6023S,L6023M,L6023L

Manufacturer/Supplier:

UElandy (Suzhou) Co., Ltd.

Room 302-1, Building 1, No.18 Chunyao Road, Caohu Industrial Park, Xiangcheng District, Suzhou, P.R. China

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#### **SECTION 2: Hazards identification**

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None

Classification according to Directive 1999/45/EC

None

Labeling according to Regulation (EC) No 1272/2008[CLP]

Hazard pictogram

None

Signal word None

Hazard statements None

**Precautionary statements** None

**HMIS Classification** 

Health hazard: 0 Flammability: 2 Physical hazards: 0

NFPA Rating
Health hazard: 0

Fire: 2

Reactivity Hazard: 0

### **SECTION 3: Composition/information on ingredients**

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to regulation (EC)No1278/2008
DMSO	67-68-5	200-664-3		25%	NA

# **SECTION 4: 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

Flush eyes with water as a precaution.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# **SECTION 5: Firefighting measures**

### Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

# Special protective equipment for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

### **SECTION 6: Accidental release measures**

#### **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

### **SECTION 7: Handling and storage**

# Precautions for safe handling

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store at -20°C.

## **SECTION 8: Exposure controls/personal protection**

### Components with workplace control parameters

Substance Dimethylsulfoxide

CAS no. 67-68-5

country	Austria	Belgium	Denmark	European Union	France	Germany
Limit value,8hours	160mg/m3	-	160mg/m3	-	-	160mg/m3
Limit value, short term	-	-	320mg/m3	-	-	320mg/m3

country	Hungary	Italy	Poland	Spain	Sweden	Netherland	United
						S	Kingdom
Limit	-	-	-	-	160mg/m3	-	-
value,8hours							
Limit value,	-	-	-	-	500mg/m3	-	-
short term							

country	United	USA-	USA-	Australia	Canada	Japan	South
	Kingdom	NIOSH	OSHA				Korea
Limit	-	-	-	-	-	-	-
value,8hours							
Limit value,	-	-	-	-	-	-	-
short term							

### Personal protective equipment

### **Hand 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.

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Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Hygiene measures

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

# **SECTION 9: Physical and chemical properties**

	Ethidium homodimer-1(EthD-I)(2 mM in				
Chemical Name					
	DMSO/H2O 1:4(v/v))				
Appearance	Liquid				
Odor	No data available				
Odor threshold	No data available				
pН	No data available				
Melting point/freezing point	No data available				
Boiling point	No data available				
Flash point	No data available				
Evaporate rate	No data available				
Flammability	No data available				
Explosive limits	No data available				
Vapor pressure	No data available				
Vapor density	No data available				
Relative density	No data available				
Solubility	Water soluble				
Partition coefficient:n-octanol/water	No data available				
Auto-ignition temperature	No data available				
Decomposition temperature	No data available				
Viscosity	No data available				
Explosive properties	No data available				
Oxidizing properties	No data available				

# **SECTION 10: Stability and reactivity**

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

Heat, flames and sparks

#### Materials to avoid

No data available

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

# **SECTION 11: Toxicological information**

**Acute toxicity DMSO** 

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### Potential health effects

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Transport hazard class none

Packing group none

Environmental hazards none
Special precaution for user none

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