

Material Safety Data Sheet

according to EC-Regulation No. 1272/2008

updated: 06/2016

Version: 1.0



Section I - Product and Company Information

| | |
|---------------------------------|--|
| Product Name | 6-TAMRA, SE |
| Product Number | PK-CA707-90097 |
| Product Classification | Cell Biology Reagents |
| Company and Contact Information | PromoCell GmbH Sickingenstrasse 63/65 69126 Heidelberg Germany Phone: +49 6221 – 649 34 0 E-mail: info@promokine.info |

Section II - Potential Hazards Information

| Product Name/ Chemical Name | CAS Number | EC-No. | Weight % | Classification according to regulation (EC)No1278/2008 |
|--------------------------------|-------------|-----------|----------|--|
| 6-TAMRA, SE | 150810-69-8 | -- | <10 % | -- |
| Dimethylsulfoxide | 67-68-5 | 200-664-3 | >90 % | NA |

Classification according to Regulation (EC) No 1272/2008[CLP]: Not classified

Classification according to Directive 1999/45/EC: Not classified

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 III - Formulation and Ingredients Information

| Component | Description | Volume | Safety Information |
|-------------|-------------------------------------|--------|--------------------|
| 6-TAMRA, SE | 90 mg/mL (0.17 M) in anhydrous DMSO | 100 µl | See below |

Section IV – First Aid Measures

General advice: Remove affected clothing and launder before reuse.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration and seek medical care.

In case of skin contact: Wash off with soap and plenty of water. If irritation persists, seek medical care.

In case of eye contact: Flush eyes with water for 15 minutes. If irritation persists, seek medical care.

If swallowed: Do NOT induce vomiting. Rinse mouth with water. Seek medical care.

Section V – Fire Fighting Measures

Suitable extinguishing media: carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

Special protective equipment for firefighters: Burning produces poisonous gases, sulfur oxides. Wear self-contained breathing apparatus for firefighting if necessary.

Section VI - 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 VII - 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 VIII - Personal Protection and Exposure Control Information

Components with workplace control parameters

Substance Dimethylsulfoxide
CAS no. 67-68-5

| country | Austria | Belgium | Denmark | European Union | France | Germany |
|-------------------------|-----------------------|---------|-----------------------|----------------|--------|-----------------------|
| Limit value, 8hours | 160 mg/m ³ | - | 160 mg/m ³ | - | - | 160 mg/m ³ |
| Limit value, short term | - | - | 320 mg/m ³ | - | - | 320 mg/m ³ |

| country | Hungary | Italy | Poland | Spain | Sweden | Netherlands | United Kingdom |
|-------------------------|---------|-------|--------|-------|-----------------------|-------------|----------------|
| Limit value, 8hours | - | - | - | - | 160 mg/m ³ | - | - |
| Limit value, short term | - | - | - | - | 500 mg/m ³ | - | - |

| country | United Kingdom | USA-NIOSH | USA-OSHA | Australia | Canada | Japan | SouthKorea |
|-------------------------|----------------|-----------|----------|-----------|--------|-------|------------|
| 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 IX – Physical and Chemical Properties

| Property | Calcein AM Solution |
|--|---------------------|
| Appearance: | Colorless Liquid |
| Odor: | No data available |
| Odor Threshold: | No data available |
| pH: | 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: | Soluble in water |
| 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 |
| Oxidising Properties: | No data available |

Section X - Stability and Reactivity

| Property | Calcein AM Solution |
|-------------------------------------|--|
| 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, sulfur oxides. Other decomposition products - no data available. |

Section XI - Toxicological Information

Acute toxicity (DMSO):

- Oral LD50: rat - 14,500 mg/kg
- Inhalation LC50: 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/skin sensitization: no data available

Germ cell mutagenicity: no data available

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. Experiments have shown reproductive toxicity effects on laboratory animals (dimethyl sulfoxide).

Specific target organ toxicity - 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 XII - Ecological Information

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

Persistence and degradability: no information available.

Biodegradation: Dimethyl sulfoxide: biodegradation: 90% (28d).

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

Mobility in soil: no information available.

Results of PBT and vPvB assessment: no information available.

Other adverse effects: no information available.

Section XIII - Disposal

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

Section XIV - Transport Information

IATA, IMDG, DOT (US): Not dangerous good during shipping

UN number: None

UN proper shipping name: None

Transport hazard class: None

Packing group: None

Environmental hazards: None

Special precaution for user: None

Section XV - 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: DMSO: fire hazard, chronic health hazard

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: Yes

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

EU Regulations:

Classification according to Regulation (EC) No. 1272/2008.

Section XVI - Other Information / Disclaimer

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. PromoCell GmbH shall not be held liable for any damage resulting from handling or contact with the above product.

FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC PROCEDURES.

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