

Material Safety Data Sheet

according to EC-Regulation No. 1272/2008

updated: 08/2016

Version: 1.0

Section I - Product and Company Information

Product Name	Cell Proliferation Kit I (CFSE)
Product Number	PK-CA707-30050
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 - Hazard Information

Product Name/ Chemical Name	CAS Number	EC-No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Dimethylsulfoxide (DMSO)	67-68-5	200-664-3	≥95%	NA	NA

5(6)-CFDA, SE (CFSE)

Classification according to Regulation (EC) No 1272/2008[CLP]: none

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

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

Pictogram: none

Signal word: none

Hazard statement(s): none

Precautionary statement(s): none

HMIS Classification

Health hazard: 0

Flammability: 0

Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Section III - Formulation and Ingredients Information

Component	Description	Volume	Safety Information
5(6)-CFDA, SE (5-(and-6)- carboxyfluorescein diacetate, succinimidyl ester); CFSE DMSO (CAS-No. 150347-59-4)	Solid; weight %: ≥95%	10 x 50 µg	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 for 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	CAS Number	Limit value	Amount	Country
Dimethyl sulfoxide	67-68-5	8h	150 mg/m ³	Sweden
		8h	160 mg/m ³	Austria, Denmark, Germany, Switzerland
		Short term	320 mg/m ³	Denmark, Germany, Switzerland
		Short term	500 mg/m ³	Sweden

Personal protective equipment

Respiratory protection

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

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.

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	DMSO, anhydrous
Appearance:	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 - Chemical Stability and Reactivity

Property	DMSO
Chemical Stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	Not available
Conditions to Avoid:	Heat, flames and sparks.
Materials to Avoid:	Not available
Hazardous decomposition products:	Under fire conditions: Carbon oxides, sulfur oxides Other: no data available

Section XI - Toxicological Data

DMSO:

Acute toxicity:

- Oral LD50 rat - 14,500 mg/kg (DMSO)
- Inhalation LC50 Inhalation - rat - 4 h - 40250 ppm (DMSO)
- Dermal LD50 rabbit - > 5,000 mg/kg (DMSO)
- 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: 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: Experiments have shown reproductive toxicity effects on laboratory animals (Dimethyl sulfoxide)

Specific target organ toxicity - single exposure (Globally Harmonized System): Dimethyl sulfoxide: STOT SE category 3 (respiratory system)

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: May cause respiratory irritation

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

DMSO:

Persistence and degradability: Dimethyl sulfoxide: biodegradation: 90% (28d).

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

Mobility in soil: no information available

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 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 XV - Classification and 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.

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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