

# Material Safety Data Sheet

according to EC-Regulation No. 1272/2008  
updated: 12/2016 Version: 1.0

## Section I - Product and Company Information

Product Name	PromoFectin-siRNA
Product Number	PK-CT-2000-RNA-050, PK-CT-2000-RNA-100, PK-CT-2000-RNA-500
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 – Composition/Information on Ingredients

<b>Substances:</b>	Not Relevant.
<b>Mixtures:</b>	Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification: 7-10 % ethanol; ethyl alcohol Index number: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6 F; R11 Flam. Liq. 2 H225

## Section III – Hazard Information

**Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:**

<b>Properties / Symbols:</b>	None.
<b>R Phrases:</b>	R10 Flammable.
<b>EC regulation criteria 1272/2008 (CLP):</b>	Flam. Liq. 3, Flammable liquid and vapour.
<b>Adverse physicochemical, human health and environmental effects:</b> No hazard.	
Label elements	
Symbols:	



### Hazard statements:

H226 Flammable liquid and vapour.

### Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use CO2 or dry chemical fire extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with applicable regulations.

### Special Provisions:

None.

### Other hazards

No other hazards.

vPvB Substances: None - PBT Substances: None.

## Section IV – First Aid Measures

**In case of skin contact:** Wash with plenty of water and soap.  
**In case of eyes contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**In case of Ingestion:** Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.  
**In case of Inhalation:** Remove casualty to fresh air and keep warm and at rest.

**Most important symptoms and effects, both acute and delayed:** None.  
**Indication of any immediate medical attention and special treatment needed**  
**Treatment:** None.

## Section V – Fire-Fighting Measures

**Suitable extinguishing media:** Water, water spray with additive, multipurpose dry chemicals, CO<sub>2</sub>, foams.  
Extinguishing media which must not be used for safety reasons: None in particular.

**Special hazards arising from the substance or mixture:** Do not inhale explosion and combustion gases.  
Combustion produces volatile vapours heavier than air (risk of spreading along the ground and distant ignition: backfire).

**Advice for firefighters:** Use suitable breathing apparatus.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

## Section VI – Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.  
Remove all sources of ignition.  
Remove persons to safety.  
See protective measures under point VII and VIII.

### Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, sand.

### Methods and material for containment and cleaning up

Wash with plenty of water.

### Reference to other sections

See also section VIII and XIII.

## Section VII – Handling and Storage

### Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section VIII for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

Storage conditions: indicated on the packaging and on the product.  
Always keep the containers tightly closed.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Keep away from food, drink and feed.  
Incompatible materials: None in particular.  
Instructions as regards storage premises: Cool and adequately ventilated.

### Specific end use(s)

None in particular.

## Section VIII – Exposure Controls/Personal Protection

### Control parameters

ethanol; ethyl alcohol - CAS: 64-17-5

OEL Type: AT - LTE: 1900 mg/m<sup>3</sup>, 1000 ppm - STE: 3800 mg/m<sup>3</sup>, 2000 ppm

OEL Type: BE - LTE: 1907 mg/m<sup>3</sup>, 1000 ppm

OEL Type: DK - LTE: 1900 mg/m<sup>3</sup>, 1000 ppm - STE: 3800 mg/m<sup>3</sup>, 2000 ppm

OEL Type: FR - LTE: 1900 mg/m<sup>3</sup>, 1000 ppm - STE: 9500 mg/m<sup>3</sup>, 5000 ppm

OEL Type: DE - LTE: 960 mg/m<sup>3</sup>, 500 ppm - STE: 1920 mg/m<sup>3</sup>, 1000 ppm

OEL Type: HU - LTE: 1900 mg/m<sup>3</sup>

OEL Type: PL - LTE: 1900 mg/m<sup>3</sup>

OEL Type: ES - LTE: 1910 mg/m<sup>3</sup>, 1000 ppm

OEL Type: SE - LTE: 1000 mg/m<sup>3</sup>, 500 ppm - STE: 1900 mg/m<sup>3</sup>, 1000 ppm

OEL Type: GB - LTE: 1920 mg/m<sup>3</sup>, 1000 ppm

### Exposure controls

**Eye protection:** Not needed for normal use. Anyway, operate according good working practices.

**Protection for skin:** No special precaution must be adopted for normal use.

**Protection for hands:** Not needed for normal use.

**Respiratory protection:** Not needed for normal use.

**Thermal Hazards:** None.

**Environmental exposure controls:** None.

## Section IX – Physical and Chemical Properties

Unless otherwise indicated, tests have been carried out at 20°C and at normal atmospheric pressure (760 mm Hg -1 atm).

Information on basic physical and chemical properties	
Appearance and colour:	Liquid
Odour:	N.A.
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	49°C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	N.A.
Solubility in water:	Soluble
Lipid solubility:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.
<b>Other information</b>	
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties:	N.A.

## Section X – Stability and Reactivity

### Reactivity

Stable under normal conditions.

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), nitrides, and powerful reducing agents. It may catch fire on contact with oxidising mineral acids, elementary metals (alkalis and alkaline earth), nitrides, organic peroxides and hydroperoxides, oxidising agents, and reducing agents.

### Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces.

### Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### Hazardous decomposition products

None.

## Section XI – Toxicological Information

### Information on toxicological effects

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Since the mixture has not been generally tested to establish its effects on health, the information pertaining to substances set out in section III is provided below.

ethanol; ethyl alcohol - CAS: 64-17-5

Test: LD50 - Route: Oral - Species: Rat 7060 mg/kg

Test: LD50 - Route: Oral - Species: Rabbit 6300 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 20000 Ppm - Notes: 1h

## Section XII – Ecological Information

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Since no ecotoxicological data about the mixture is available, the concentration of each substance must be considered to assess the ecotoxicological effects resulting from exposure to the mixture.

ethanol; ethyl alcohol - CAS: 64-17-5

Test: LC50 Fish - Duration h: 48 - mg/l: 8.14

Test: EC50 BACTERIA - Duration h: 30 min - mg/l: 34634

Test: EC50 BACTERIA - Duration h: 5 min - mg/l: 35470

Test: EC50 Daphnia - Duration h: 48 - mg/l: 9268

Test: EC50 Daphnia - Duration h: 24 - mg/l: 10800

### Persistence and degradability

None.

### Bioaccumulative potential

N.A.

### Mobility in soil

N.A.

### Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### Other adverse effects

None.

## Section XIII – Disposal Information

### Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

## Section XIV – Transport Information

### UN number

ADR-UN number: 1170

IATA-Un number: 1170

IMDG-Un number: 1170

**UN proper shipping name**

ADR-Shipping Name: ETHANOL IN SOLUTION  
IATA-Technical name: ETHANOL IN SOLUTION  
IMDG-Technical name: ETHANOL IN SOLUTION

**Transport hazard class(es)**

ADR-Label: 3  
IATA-Label: 3  
IMDG-Label: 3

**Packing Group**

ADR-Packing Group: III  
IATA-Packing group: III  
IMDG-Packing group: III

**Environmental hazards**

Marine pollutant: No

**Special Precautions for User**

IMDG-Technical name: ETHANOL IN SOLUTION

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No.

**Section XV – Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Where applicable, refer to the following regulatory provisions:

Directive 98/24/EC (Risks related to chemical agents at work).

Directive 2000/39/EC (Occupational exposure limit values).

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

Directive 1999/13/EC (VOC directive).

**Chemical Safety Assessment**

No.

**Section XVI - Disclaimer****Full text of phrases referred to in Section III:**

R11 Highly flammable.

H225 Highly flammable liquid and vapour.

**Further information:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PromoCell shall not be held liable for any damage resulting from handling or from contact with the above product.

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

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