

## Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)  
Classification according to Regulation (EC) No. 1272/2008 [CLP]

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

<b>Product code</b>	10829018
<b>Product name</b>	Knockout™ D-MEM
<b>Chemical Name</b>	Not Applicable
<b>REACH registration number</b>	No registration number is given yet for this substance / substances in this mixture since the annual import quantity is less than one tonnage per annum or the transition period for its registration according to Article 23 of REACH has not yet expired.

#### Relevant identified uses of the substance or mixture and uses advised against

<b>Relevant identified uses</b>	For research use only
<b>Use Description Code</b>	SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen), PROC15 - Use as laboratory reagent, PC21 - Laboratory chemicals, SU24 - Scientific research and development
<b>Uses advised against</b>	Not for consumer use.

#### Details of the supplier of the safety data sheet

##### Manufacturer / Supplier

LIFE TECHNOLOGIES EUROPE BV  
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NETHERLANDS  
31-(0)180 392 400  
Email: MSDS@lifetech.com

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**24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident. Spill, Leak, Fire, Exposure, or Accident. Call CHEMTREC** Within the USA + Canada: 1-800-424-9300 and 1-703-527-3887  
Outside the USA + Canada: 1-703-741-5970

#### Country Specific Emergency Number (if available):

CHEMTREC Ireland (Dublin)	+(353)-19014670 (Greeting Language: English and Irish)
CHEMTREC UK (London)	+(44)-870-8200418 (Greeting Language: English)

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## SECTION 2: Hazards identification

### Classification of the substance or mixture

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

**Physical hazards**

Not Hazardous

**Health hazards**

Not Hazardous

**Environmental hazards**

Not Hazardous

**Additional information**

Not Applicable

**Label elements**

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

**Hazard pictograms**

None

**Signal Word**

None

**Hazard Statements**

Not Applicable

**EU Specific Hazard Statements**

Not Applicable

**Precautionary Statements**

**Prevention**

Not Applicable

**Response**

Not Applicable

**Storage**

Not Applicable

**Disposal**

Not Applicable

**Other hazards**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

### SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### SECTION 4: First aid measures

#### Description of first aid measures

<b>Skin contact</b>	Rinse with plenty of water. Immediate medical attention is not required.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion</b>	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
<b>Inhalation</b>	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
<b>Notes to Physician</b>	Treat symptomatically.

#### Most important symptoms and effects, both acute and delayed

Not Applicable

#### Indication of any immediate medical attention and special treatment needed

None.

### SECTION 5: Firefighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Unsuitable extinguishing media</b>	No information available.

#### Special hazards arising from the substance or mixture

Not known.

#### Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

### **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation  
Always wear recommended Personal Protective Equipment  
Use personal protection equipment  
See Section 8 for more detail.

### **Environmental precautions**

No special environmental precautions required.

### **Methods and material for containment and cleaning up**

Soak up with inert absorbent material.

### **Reference to other sections**

See section 8 for more information.

## SECTION 7: Handling and storage

### **Precautions for safe handling**

Use personal protective equipment as required. No special handling advices are necessary.

### **Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

### **Specific end use(s)**

For research use only.

## SECTION 8: Exposure controls/personal protection

### Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Exposure controls

#### **Personal protection equipment**

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

**Hand protection** Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

#### **Environmental exposure controls**

No special environmental precautions required.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	liquid	
<b>Odour</b>	No data	
<b>Odour Threshold</b>	No data	
<b>Molecular Weight</b>	No data	
<b>pH</b>	Mixture has not been tested	
<b>Melting point / melting range</b>	°C No data	°F No data
<b>Boiling point / boiling range</b>	°C No data	°F No data
<b>Flash point</b>	°C No data	°F No data
<b>Autoignition Temperature</b>	°C No data	°F No data
<b>Decomposition temperature</b>	°C No data	°F No data
<b>Evaporation rate</b>	No data	
<b>Flammability (solid, gas)</b>	No data	
<b>Upper explosion limit</b>	No data	
<b>Lower explosion limit</b>	No data	
<b>Vapour Pressure</b>	No data	
<b>Vapour density</b>	No data	
<b>Relative density</b>	No data	
<b>Specific gravity</b>	No data	
<b>Solubility</b>	No data	
<b>Partition coefficient: n-octanol/water</b>	No data	
<b>Viscosity</b>	No data	
<b>Explosive properties</b>	No data	
<b>Oxidising properties</b>	No data	

### Other information

No data.

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	None known.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported.
<b>Conditions to avoid</b>	No information available.
<b>Incompatible materials</b>	No dangerous reaction known under conditions of normal use.
<b>Hazardous decomposition products</b>	No data available.

## SECTION 11: Toxicological information

### Information on toxicological effects

There is no evidence available indicating acute toxicity.

### Principal Routes of Exposure

**Skin corrosion/irritation** Data are conclusive but insufficient for classification

**Serious eye damage/irritation** Data are conclusive but insufficient for classification

**Respiratory or skin sensitisation** Data are conclusive but insufficient for classification

**Specific target organ toxicity (STOT) – single exposure** Data are conclusive but insufficient for classification

**Specific target organ toxicity (STOT) – repeated exposure** Data are conclusive but insufficient for classification

**Carcinogenicity** Data are conclusive but insufficient for classification

**Germ cell mutagenicity** Data are conclusive but insufficient for classification

**Reproductive Toxicity** Data are conclusive but insufficient for classification

**Aspiration Hazard** Data are conclusive but insufficient for classification

## SECTION 12: Ecological information

### Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## SECTION 14: Transport information

### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

<b>UN number</b>	Not Applicable
<b>UN proper shipping name</b>	Not Applicable
<b>Transport hazard class(es)</b>	Not Applicable
<b>Packing group</b>	Not Applicable

### Environmental hazards

Not Applicable

### Special precautions for user

Not Applicable

### Transport in bulk according to Annex II of MARPOL and the IBC Code

Not Applicable.

## SECTION 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Substances of Very High Concern

None.

#### Substance subject to authorisation per REACH Annex XIV

None

#### Restricted substances under EC 1907/2006, Annex XVII

None.

#### Substances listed under Annex I of Regulation (EC) No 689/2008

None.

#### Restricted substances under Annex V of Regulation (EC) No 689/2008

None.

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**Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC**

None.

**German Water hazard classes (Wassergefährdungsklassen)**

Not classified.

**Other International Inventories**

No information available

**Chemical safety assessment**

No Chemical safety assessment has been carried out.

SECTION 16: Other information

<b>Reason for revision</b>	Update according to Commission Regulation (EU) No 830/2015
<b>Revision number</b>	2
<b>Revision date</b>	04-Jun-2019

**References**

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Not classified

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

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