

### **MSDS**

Version 1.0 Revision Date: 09/16/2013

# Product and Company Identification

Product Name: Dh10-Beta Competent E. Coli

Cat #: DH10-100, DH10-196

**Product Use:** For Research Use Only. Not for use in diagnostic procedures

**Company:** Molecular Cloning Laboratories (MCLAB)

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### Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable

Target Organ(s): Not applicable or unknown

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

# Composition/information on ingredients

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

56-81-5	glycerol		1.0-5.0%
67-68-5	dimethyl sulfoxide	H302; H227	1.0-5.0%

### First-aid measures

### Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

#### Information for doctor:

Most important symptoms and effects, both acute and delayed None Indication of any immediate medical attention and special treatment needed No further relevant information available.

## Fire-fighting measures

### Extinguishing media

### Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

## Special hazards arising from the substance or mixture None known

### Advice for firefighters

No special advice No special advice

Protective equipment: No special measures required.

### Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

# Handling and storage

### Handling:

Precautions for safe handling No special measures required.

Information about protection against explosions and fires: The product is not flammable.

Conditions for safe storage, including any incompatibilities

#### Storage:

Requirements to be met by storerooms and receptacles: No special requirements.



Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

**Specific end use(s)** No further relevant information available.

## Exposure controls/personal protection

### **Control parameters**

Components with limit values that require monitoring at the workplace:			
56-81-5 glycerol			
PEL ()	15* 5** mg/m³, *total dust **respirable fraction		
TLV ()	10* ppm, *Mist		
67-68-5 dimethyl sulfoxide			
WEEL ()	250 ppm		

Additional information: The lists that were valid during the creation were used as basis.

**Exposure controls** 

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands:

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Eye protection: Goggles recommended during refilling.

# Physical and chemical properties

Information on basic physical and chemical properties General Information

#### Appearance:

Form: Fluid
Color: Colorless
Odor: Characteristic
Odour threshold: Not determined.

#### Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.
Flash point: Not applicable.

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 270 °C (518 °F)

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure: Not determined.

Density: Not determined.

Relative density Not determined.

Vapour density Not determined.

Evaporation rate Not determined.

Solubility in / Miscibility with Not miscible or difficult to mix.

Water:

Partition coefficient (n-octanol/

water):

Not determined.

Viscosity:

Dynamic: Not determined. Not determined. Kinematic: Not determined. Not determined.

Solvent content:

Organic solvents: 10.0 % VOC content: 5.0 %

Other information No further relevant information available.

# Stability and reactivity

### Reactivity

#### Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

# Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: No data available

Primary irritant effect:

on the skin: No irritant effect. on the eye: Irritating effect.



**Sensitization:** No sensitizing effects known.

### Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to

our experience and the information provided to us.

### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed. NTP (National Toxicology Program)

None of the ingredients are listed.

## **Ecological information**

### Toxicity

Aquatic toxicity: Not harmful to the aquatic environment

Persistence and degradability Not available

### Behavior in environmental systems:

Bioaccumulative potential Not known

Mobility in soil No further relevant information available.

### **Ecotoxical effects:**

Remark: Not available

### Additional ecological information:

### General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

# Disposal considerations

### Waste treatment methods

### Recommendation:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

### **Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

# Transport information

UN-Number None DOT, ADR, ADN, IMDG, IATA Void

UN proper shipping name None
DOT, ADR, ADN, IMDG, IATA Void
Transport hazard class(es) None
DOT, ADR, ADN, IMDG, IATA Class Void
Packing group None
DOT, ADR, IMDG, IATA Void

Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of Not applicable.

MARPOL73/78 and the IBC Code

UN "Model Regulation": -

## Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

56-81-5 glycerol

67-68-5 dimethyl sulfoxide

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Cancerogenity categories

**EPA (Environmental Protection Agency)** 

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

MAK (German Maximum Workplace Concentration)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### Other Information

For research use only. 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 MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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