

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Issuing Date** 23-Apr-2009

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EGHS / English



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**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

**Product Name** Glycerol Clones

**Chemical name**

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Recommended Use** For research use only.

**Uses advised against** No information available.

**1.3. Details of the supplier of the safety data sheet**

**Supplier Name** Dharmacon, Inc.,  
Horizon Discovery Ltd.

**Supplier Address** 2650 Crescent Drive Suite 100  
Lafayette, CO 80026

**Supplier Phone Number** Tel: 303-604-9499  
Fax: 303-604-9680

**Supplier Email** Stephanie.stroh@horizondiscovery.com

For further information, please contact.

**1.4. Emergency telephone number**

**Emergency telephone** Chemtrec International 1-703-741-5970

**Emergency telephone §45 - (EC)1272/2008**

**Europe** 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

### 2.2. Label elements

### 2.3. Other hazards

No information available

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| Chemical name  | EC No | CAS-No  | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH Reg. No.    |
|----------------|-------|---------|----------|---|-------------------|
| Growth Media   | -     | N/A     | 90%      | No data available   | No data available |
| Glycerol Media | -     | 56-81-5 | 10%      | No data available   | No data available |

### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

| Chemical name  | CAS-No  | SVHC candidates |
|----------------|---------|-----------------|
| Glycerol Media | 56-81-5 | -               |
| Growth Media   | N/A     | -               |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Remove to fresh air.   |
| <b>Skin contact</b> | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.                 |
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Ingestion</b>    | DO NOT induce vomiting. Get medical attention.   |

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

**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

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

#### **Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### 5.3. Advice for firefighters

#### **Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Should not be released into the environment. See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes or clothing.

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

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry place. Keep at -80°C.

**7.3. Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

**8.2. Exposure controls****Engineering Controls**

Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand Protection** Protective gloves.

**Skin and body protection** Wear suitable protective clothing.

**Environmental exposure controls** No information available.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     | No information available |
| <b>Odor</b>           | No information available |
| <b>Color</b>          | Light brown              |
| <b>Odor Threshold</b> | No information available |

| <b><u>Property</u></b>        | <b><u>Values</u></b> | <b><u>Remarks</u></b> | <b><u>Method</u></b> |
|-------------------------------|----------------------|-----------------------|----------------------|
| pH                            | No data available    | None known            |                      |
| Melting / freezing point      | No data available    | None known            |                      |
| Boiling point / boiling range | No data available    | None known            |                      |
| Flash Point                   | No data available    | None known            |                      |
| Evaporation Rate              | No data available    | None known            |                      |

|   |                   |            |
|---|-------------------|------------|
| <b>Flammability (solid, gas)</b>              | No data available | None known |
| <b>Flammability Limit in Air</b>              |                   | None known |
| <b>Upper flammability limit</b>               | No data available |            |
| <b>Lower flammability limit</b>               | No data available |            |
| <b>Vapor pressure</b>                         | No data available | None known |
| <b>Vapor density</b>                          | No data available | None known |
| <b>Relative density</b>                       | No data available | None known |
| <b>Water Solubility</b>                       | No data available | None known |
| <b>Solubility(ies)</b>                        | No data available | None known |
| <b>Partition coefficient: n-octanol/water</b> | No data available | None known |
| <b>Autoignition temperature</b>               | No data available | None known |
| <b>Decomposition temperature</b>              | No data available | None known |
| <b>Kinematic viscosity</b>                    | No data available | None known |
| <b>Viscosity</b>                              | No data available | None known |

## **9.2. Other information**

|                                   |                          |
|-----------------------------------|--------------------------|
| <b>Softening Point</b>            | No information available |
| <b>Molecular Weight</b>           | No information available |
| <b>VOC Content (%)</b>            | No information available |
| <b>Liquid Density</b>             | No information available |
| <b>Bulk Density</b>               | No information available |
| <b>Particle Size</b>              | No information available |
| <b>Particle Size Distribution</b> | No information available |

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No data available.

### **10.2. Chemical stability**

Stable under normal conditions.

#### Explosion Data

|                                  |       |
|----------------------------------|-------|
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge  | None. |

### **10.3. Possibility of hazardous reactions**

**Possibility of Hazardous Reactions**      None under normal processing.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

### **10.4. Conditions to avoid**

None known.

### **10.5. Incompatible materials**

No information available.

### **10.6. Hazardous decomposition products**

None under normal use conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

##### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. |

#### Information on toxicological effects

**Symptoms** No information available.

#### Numerical measures of toxicity

##### Acute Toxicity

##### Unknown acute toxicity

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** No information available.

### 12.2. Persistence and degradability

**Persistence and Degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

### 12.6. Other adverse effects

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** No information available.

## SECTION 14: Transport information

### IMDG

|                                  |                          |
|----------------------------------|--------------------------|
| <b>14.1 UN Number</b>            | UN3245                   |
| <b>14.2 Proper Shipping Name</b> | GMMO                     |
| <b>14.3 Hazard Class</b>         | Not regulated            |
| <b>14.4 Packing group</b>        | Not regulated            |
| <b>14.5 Marine Pollutant</b>     | Not applicable           |
| <b>14.6 Special Provisions</b>   | None                     |
| <b>14.7 Transport in bulk</b>    | No information available |

according to Annex II of  
MARPOL and the IBC Code

**RID**

|                           |                |
|---------------------------|----------------|
| 14.1 UN-No.               | Not regulated  |
| 14.2 Proper Shipping Name | Not regulated  |
| 14.3 Hazard Class         | Not regulated  |
| 14.4 Packing Group        | Not regulated  |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special Provisions   | None           |

**ADR**

|                           |                |
|---------------------------|----------------|
| 14.1 UN-No.               | Not regulated  |
| 14.2 Proper Shipping Name | Not regulated  |
| 14.3 Hazard Class         | Not regulated  |
| 14.4 Packing Group        | Not regulated  |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special Provisions   | None           |

**IATA**

|                           |                |
|---------------------------|----------------|
| 14.1 UN Number            | Not regulated  |
| 14.2 Proper Shipping Name | Not regulated  |
| 14.3 Hazard Class         | Not regulated  |
| 14.4 Packing group        | Not regulated  |
| 14.5 Environmental hazard | Not applicable |
| 14.6 Special Provisions   | None           |

|   |
|---|
| <b>SECTION 15: Regulatory information</b> |
|---|

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

**Persistent Organic Pollutants**

Not applicable.

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable.

**International Inventories****TSCA**

Contact supplier for inventory compliance status.

**DSL/NDSL**

Contact supplier for inventory compliance status.



|                      |   |
|----------------------|---|
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status. |
| <b>ENCS</b>          | Contact supplier for inventory compliance status. |
| <b>IECSC</b>         | Contact supplier for inventory compliance status. |
| <b>KECL</b>          | Contact supplier for inventory compliance status. |
| <b>PICCS</b>         | Contact supplier for inventory compliance status. |
| <b>AICS</b>          | Contact supplier for inventory compliance status. |

**Legend**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

No information available.

**SECTION 16: Other information**
**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorization:

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | -    | Skin designation                 |

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

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This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

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End of Safety Data Sheet

**Data for Regulatory Rules**

