

## MATERIAL SAFETY DATA SHEET

<b>Product</b>	
<b>Item #</b>	<b>Title</b>
LD-MG-Volume	6X MeanGreen Loading Dye
<b>Components</b>	
LD-MG-Volume	6X MeanGreen Loading Dye

## MATERIAL SAFETY DATA SHEET

**Product Title:** 6X MeanGreen Loading Dye

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Title:** 6X MeanGreen Loading Dye  
**Item number:** LD-MG-Volume  
**Document Number:** PC-MSDS-018 Version 002  
**Relevant identified uses of the substance or mixture and uses advised against**  
**Application of the substance / the mixture**  
**Details of the supplier of the safety data sheet**  
Manufacturer/Supplier:  
Empirical Bioscience  
2007 EastCastle Dr. SE  
Grand Rapids, MI 49508 U.S.A.  
1-877.479.9949  
MSDS author; customer.service@empiricalbioscience.com

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

<b>Hazardous Ingredients (<i>specific</i>)</b>	<b>%</b>	<b>CAS Number</b>
Glycerol	30	56-81-5

## SECTION 3 — HAZARDS IDENTIFICATION

**Classification of the substance or mixture Classification according to the Hazard Communication Standard (HCS).**  
**The product is not classified as hazardous according to the HCS regulation.**  
**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 = 1**  
**Reactivity = 0**  
**HMIS-ratings (scale 0 - 4)**  
**Health = 0**  
**Fire = 1**  
**Reactivity = 0**  
**OSHA Hazard Overview (Criteria according to 29CFR1910.1200):** Not applicable  
**Target Organ(s):** Not applicable or unknown  
**Other hazards** This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported above pertains to the hazardous ingredients of this mixture.  
**Results of PBT and vPvB assessment**  
**PBT:** Not applicable.  
**vPvB:** Not applicable

## MATERIAL SAFETY DATA SHEET

**Product Title:** 6X MeanGreen Loading Dye

## SECTION 4 — 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

## SECTION 5 — FIRE FIGHTING MEASURES

**Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, 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

**Protective equipment:** No special measures required.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:** Dilute with plenty of water.

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.

## SECTION 7 — 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.

## MATERIAL SAFETY DATA SHEET

Product Title: 6X MeanGreen Loading Dye

## SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

**56-81-5 glycerol**

PEL () Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

\*total dust \*\*respirable fraction

TLV () TLV withdrawn-insufficient data human occup. exp

**Additional information:.**

**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.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties****General Information**

**Appearance:**

**Form:** Fluid

**Color:** Colorless

**Odor:** Characteristic

**Odour threshold:** Not Determined

**pH-value at 20 °C (68 °F):** 8.5

**Change in condition**

**Melting point/Melting range:** Undetermined

**Boiling point/Boiling range:** 100 °C (212 °F)

**Flash point:** Not applicable

**Flammability** (solid, gaseous): Not applicable

**Ignition temperature:** 400 °C (752 °F)

**Decomposition temperature:** Not determined

**Auto igniting:** Product is not self-igniting

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

**Explosion limits:**

**Lower:** Not determined

**Upper:** Not determined

**Vapor pressure at 20 °C (68 °F):** Not determined

**Density at 20 °C (68 °F):** 1.203 g/cm<sup>3</sup>(10.039 lbs/gal)

**Relative density.** Not determined

**Vapour density** Not determined

**Evaporation rate** Not determined

**Solubility in / Miscibility with Water:** Fully miscible

**Partition coefficient** (n-octanol/water): Not determined

**Viscosity:**

**Dynamic:** Not determined

**Kinematic:** Not determined

**Solvent content:**

**Organic Solvents:** 0.0%

**Water:** 76.2%

**Solids content:** 22.3%

**Other information** No further relevant information available.

## MATERIAL SAFETY DATA SHEET

**Product Title:** 6X MeanGreen Loading Dye

## SECTION 10 — 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.

## SECTION 11 — 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.

## SECTION 12 — 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.

**Ecotoxicological 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.

## MATERIAL SAFETY DATA SHEET

Product Title: 6X MeanGreen Loading Dye

## SECTION 13 — 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.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## SECTION 14 — 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 MARPOL73/78 and the IBC code** Not applicable

**UN "Model Regulation":** -

## SECTION 15 — 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):** All of the ingredients are listed.

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.

**Carcinogen 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.

## MATERIAL SAFETY DATA SHEET

**Product Title: 6X MeanGreen Loading Dye**

## SECTION 16 — OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS

Empirical Bioscience

2007 EastCastle Dr. SE

Grand Rapids, MI 49508 U.S.A.

1-877.479.9949

**Abbreviations and acronyms:**

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**IMDG:** International Maritime Code for Dangerous Goods

**DOT:** US Department of Transportation

**IATA:** International Air Transport Association

**CAS:** Chemical Abstracts Service (division of the American Chemical Society)

**NFPA:** National Fire Protection Association (USA)

**HMIS:** Hazardous Materials Identification System (USA)

**LC50:** Lethal concentration, 50 percent

**LD50:** Lethal dose, 50

\* **Data compared to the previous version altered.**