

Safety Data Sheet

Glow Writer™

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

1.1 Product identifier

Product name	Glow Writer™
Product number	GLWR-1000

1.3 Details of the supplier of the safety data sheet

Name	Diversified Biotech Inc.
Address	65 Commerce Way Dedham, MA 02026 USA
Telephone	781-326-6709
Fax	781-326-5611

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

2.2 Label elements

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

1. Solvent naphtha (petroleum), light aliph

Concentration	Not specified
CAS no.	64742-89-8

2. Solvent naphtha (petroleum), medium aliph

Concentration	Not specified
CAS no.	64742-88-7

3. ETHYLBENZENE

Safety Data Sheet

Glow Writer™

Concentration	Not specified
EC no.	202-849-4
CAS no.	100-41-4
Index no.	601-023-00-4

- Flammable liquids (chapter 2.6), Cat. 2
- Acute toxicity (chapter 3.1), Cat. 4

H225	Highly flammable liquid and vapor
H332	Harmful if inhaled

4. XYLENES (MIXED)

Concentration	Not specified
EC no.	215-535-7
CAS no.	1330-20-7
Index no.	601-022-00-9

- Flammable liquids (chapter 2.6), Cat. 3
- Acute toxicity (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 2

H226	Flammable liquid and vapor
H312	Harmful in contact with skin
H315	Causes skin irritation
H332	Harmful if inhaled

5. Distillates (petroleum), hydrotreated light

Concentration	Not specified
CAS no.	64742-47-8

6. Organopholic Clay

Concentration	Not specified
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7. Zinc sulfide (ZnS), copper chloride-doped

Concentration	Not specified
CAS no.	68611-70-1

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Find artificial respiration if not breathing. Get medical attention.
Following skin contact	Remove any contaminated clothing and wash skin with soap and water thoroughly. If irritation persists, get medical attention.

Safety Data Sheet

Glow Writer™

Following eye contact	Wash immediately with plenty of water for 15 minutes while holding eye lids open. Call a physician.
Following ingestion	Do not induce vomiting. Call a physician at once. If vomiting occurs, keep head below hips to prevent aspiration of liquid into lungs.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Alcohol resistant foam, CO2 or dry chemicals

5.2 Special hazards arising from the substance or mixture

Caution: Flammable. A stream of water could spread fire. Avoid breathing vapors. Keep personnel removed from an upwind of fire. Wear full protective equipment:

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED/SPILLED:

Caution: Flammable. Contain spilled product by diking. Eliminate all possible ignition sources. Provide adequate ventilation. Equip emergency responders with appropriate personal protection equipment. Take up spill with an absorbent material and place in non-leaking container. Seal container for proper disposal.

SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Store away from ignition sources in a cool well ventilated area. Handle as flammable liquid. Do not drop container.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Ethyl benzene (CAS: 100-41-4)

Parameter	PEL
Route of exposure	Inhalation
Value	100 ppm
Source	OSHA
Basis / monitoring / notes	OSHA Annotated Table Z-1, www.osha.gov

2. Ethyl benzene (CAS: 100-41-4)

Parameter	PEL
Route of exposure	Inhalation
Value	435 mg/m ³
Source	OSHA
Basis / monitoring / notes	OSHA Annotated Table Z-1, www.osha.gov

3. Ethyl benzene (CAS: 100-41-4)

Parameter	PEL
Route of exposure	Inhalation
Value	100 ppm, (ST) 125 ppm

Safety Data Sheet

Glow Writer™

Source Cal/OSHA
Basis / monitoring / notes OSHA Annotated Table Z-1, www.osha.gov

4. Ethyl benzene (CAS: 100-41-4)

Parameter REL
Route of exposure Inhalation
Value 100 ppm, (ST) 125 ppm
Source NIOSH
Basis / monitoring / notes OSHA Annotated Table Z-1, www.osha.gov

5. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

Parameter PEL
Route of exposure Inhalation
Value 100 ppm
Source OSHA
Basis / monitoring / notes OSHA Annotated Table Z-1, www.osha.gov

6. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

Parameter PEL
Route of exposure Inhalation
Value 435 mg/m³
Source OSHA
Basis / monitoring / notes OSHA Annotated Table Z-1, www.osha.gov

7. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

Parameter PEL
Route of exposure Inhalation
Value 100 ppm, (ST) 150 ppm, (C) 300 ppm
Source Cal/OSHA
Basis / monitoring / notes OSHA Annotated Table Z-1, www.osha.gov

8. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

Parameter REL
Route of exposure Inhalation
Value 100 ppm, (ST) 150 ppm
Source NIOSH
Basis / monitoring / notes OSHA Annotated Table Z-1, www.osha.gov

8.2 Exposure controls

Appropriate engineering controls

If the product is used in a confined area, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). Heavy solvent vapors should be removed from the lower levels of area, and all ignition sources (non-explosion proof equipment) should be eliminated if flammable mixtures will be encountered.

Personal protection equipment

Eye and face protection

Chemical safety splash goggles.

Skin protection

PROTECTIVE GLOVES: Solvent resistant are recommended for prolonged contact.

Body protection

OTHER PROTECTIVE EQUIPMENT: Eye-Wash Station. Safety Shower. Rubber Apron. Chemical Safety Shoes. Protective Clothing.

Safety Data Sheet

Glow Writer™

Respiratory protection

Avoid prolonged or repeated breathing of vapors, mists and/or dusts. If exposure may or does exceed occupational exposure limits (Section II) use a NIOSH-approved respirator to prevent overexposure. In Accord with 29 CFR 1910-134 use either an atomosphere-suppling respirator or an air purifying respirator with appropriate chemical/mechanical filters.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Odour	
Odour threshold	
pH	
Melting point / freezing point	
Initial boiling point and boiling range	246 to 404 deg. F
Flash point	68 deg. F
Evaporation rate	Slower than Ethyl Ether
Flammability (solid, gas)	Flammable Liquid – Class 2B
Upper/lower flammability limits	LEL 1.0, UEL 7.0
Upper/lower explosive limits	
Vapour pressure	6.9mm Hg @ 20 deg. C
Vapour density	Heavier than air
Relative density	.977
Solubilit(ies)	
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidising properties	

SECTION 10: Stability and reactivity

10.2 Chemical stability

Stable

10.4 Conditions to avoid

Avoid contact with heat, sparks, hot surfaces and open flames.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Safety Data Sheet

Glow Writer™

Carcinogenicity

Ethyl Benzene component is an IARC Group 2B-Possible Carcinogen.

SECTION 12: Ecological information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal of the product

Do not incinerate closed containers. Dispose of in accordance with local state and federal regulations.

SECTION 14: Transport information

DOT (US)

UN Number:

Class:

Packing Group:

Proper Shipping Name:

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

IMDG

UN Number:

Class:

Packing Group:

EMS Number:

Proper Shipping Name:

IATA

UN Number:

Class:

Packing Group:

Proper Shipping Name:

SECTION 15: Regulatory information

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

Massachusetts Right To Know Components

Chemical name: Ethylbenzene

CAS number: 100-41-4

New Jersey Right To Know Components

Common name: ETHYL BENZENE

CAS number: 100-41-4

Pennsylvania Right To Know Components

Chemical name: Benzene, ethyl-

CAS number: 100-41-4

Safety Data Sheet

Glow Writer™

California Prop. 65 components

Chemical name: ETHYLBENZENE

CAS number: 100-41-4

06/11/2004 - cancer

Massachusetts Right To Know Components

Chemical name: Xylene (mixed isomers)

CAS number: 1330-20-7

New Jersey Right To Know Components

Common name: XYLENES

CAS number: 1330-20-7

Pennsylvania Right To Know Components

Chemical name: Benzene, dimethyl-

CAS number: 1330-20-7

California Prop. 65 components

Chemical name: XYLENES (MIXED)

CAS number: 1330-20-7

06/11/2004 - Cancer

SECTION 16: Other information

Further information/disclaimer

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