

Material Safety Data Sheet

Version GHS 5.1 Revision date : 01/5/2018

1. PRODUCT & COMPANY IDENTIFICATION

Product Name : iVDye 100bp DNA Ladder Product Cat No : V1002 CAS No : None Manufacturer/Supplier : GenDEPOT LLC PO Box 454 Do La 77 7712

Barker, Tx 77413 Emergency Phone : 866.417.0078 Fax : 281-579-6876

2. HAZARD IDENTIFICATION

Emergency Overview

GHS Classification

No hazards are expected from using this product.

This product is not regulated under the United Nations Globally Harmonized System for the Classification and Labeling of Hazardous Chemicals (GHS) 2006 version; European Directive 67/648/EEC; and U.S OSHA 29 CFR 1910.1200 Hazard Communication Standard. Although a (M)SDS is not required, this document is offered as a service to customers who handle or might come in contact with this product and would like guidance.

GHS Label elements, including precautionary statements

Pictogram none

Signal word none

Hazard statement(s) none

Precautionary statement(s) none

Potential Health Effects

Inhalation : May be harmful if inhaled, Causes respiratory tract irritationSkin: May be harmful if absorbed through skin. Cause skin irritationEyes: Causes eye irritationIngestion: May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENT

Component	Classification	Concentration
2-Amino-2-(hydroxymethyl)prop	ane-1,3-diol hydrochlori	de
CAS-NO. 1185-53-1 EC-NO . 214-684-5		<0.1%
Ethylenedinitrilotetraacetic acid		
CAS-NO. 60-00-4 EC-NO . 200-449-4 Eye Irritant. 2A; H319		<0.1%
Xylene Cyanol FF		
CAS-NO. 2650-17-1 EC-NO . 220-167-5 Skin irritant. 2; Eye irritant. 2A; S	TOT SE3; H315,H319,H	<0.1 %
Bromphenol Blue Sultone Form		
CAS-NO. 115-39-9 EC-NO . 204-086-2		<0.1 %
Cresol Red		
CAS-NO. 1733-12-6 EC-NO . 217-064-2 Skin irritant. 2 ; Eye irritant. 2A ; ;	STOT SE; H315, H319, 1	<0.1% H335
Orange G		
CAS-NO. 1936-15-8 EC-NO . 217-705-6		<0.1%
Glycerol		
CAS-NO. 56-81-5 EC-NO . 200-289-5		20-40 %

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

- Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

5. FIREFIGHTING MEASURES

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: Carbon oxides, nitrogen oxides (NOx)

Further information: Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precaution: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for contaminant and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precaution for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Condition for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2-8 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Glycerol CAS-No 50	5-81-1	
TWA 5 mg/m3	USA. Occupational exposure Limits	
	(OSHA) - Table Z-1 Limits for Air Contaminants	
TWA 15 mg/m3	USA. Occupational Exposure Limits	
	(OSHA) - Table Z-1 Limits for Air Contaminants	
TWA 10 mg/m3	USA. OSHA - TABLE Z-1 Limits for	
	Air Contaminants - 1910.1000	
TWA 5 mg/m3	USA. OSHA - TABLE Z-1 Limits for	
	Air Contaminants - 1910.1000	

Personal protective equipment: .

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

9. PHYSICIAL AND CHEMICAL PROPERTIES

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Appearance:

Form	liquid	
Color	dark brown	

Safety data:

ety data:				
pН	7.0-7.5			
Melting point	no data available			
Freezing point	no data available			
Boiling point	no data available			
Flash point	no data available			
Ignition temperature	no data available			
Auto-ignition temperature	no data available			
Lower explosion limit	no data available			
Upper explosion limit	no data available			
Vapor pressure	no data available			
Density	no data available			
Water solubility	Easily soluble in water			
Partition coefficient: n-octanol/water	no data available			
Relative vapor density	no date available			
Odor	odorless			
Odor threshold	no data available			
Evaporation rate	no data available			

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions no data available.

Condition to avoid no data available..

Materials to avoid Strong oxidizing agents

Hazardous decomposition products no data available

11. TOXICOLOGICAL INFORMATON

Acute Toxicity

no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization no data available

Mutagenicity (Germ cell mutagenicity) no data available

Specific target organ toxicity— single exposure (GHS) no data available

Specific target organ toxicity— repeated exposure (GHS) no data available

Aspiration hazard no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation

Synergistic effects no data available

Additional information RTECS : not available

Kidney - Irregularities - Based on Human Evidence Kidney - Irregularities - Based on Human Evidence (Glycerol)

12. ECOLOGICAL INFORMATION

Toxicity no data available

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive toxicity no data available

Teratogenicity no data available Persistence and degradability no data available

Bioaccumulative potential no data available

Mobility in soil no data available

PBT and vPvB assessment no data available

Other adverse effect no data available

13 . DISPOSAL CONSIDERATIONS

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

Carcinogenicity no data available

14. TRANSPORT INFORMATION

DOT(US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

United States

		It of the second second		
HCS Classification :	Non Hazard	HIMS Rating:		
TSCA 8(a) IUR exempt/Partial	exemption : not determined	Health hazard :	0	
United States Inventory (TSCA		Chronic Health Hazard	: *	
SARA 302/304/311/312 extrem	5	Flammability :	0	
SADA 202/204	No products were found	Physical hazards:	0	
SARA 302/304 emergency pla	No products were found	NFPA Rating:		
SARA 302/304/311/312 hazard SARA 311/312 Hazard Identif	dous chemicals : No SARA hazard	Health Hazard:	0	
Acute Health Hazard, Chronic		Fire:	0	
		Reactivity Hazard:	0	
Clean Air Act Section 112(b) Hazardous air pollutants (HAP	: not listed s)			
Clean Air Act Section 602 Class I substances	: not listed			
Clean Air Act Section 602 Class II substances	: not listed			
DEA List I Chemicals (Precursor chemicals)	: not listed	cals and who are well tra	nly for research use by personnel familiar ch uned in good laboratory habits, such as avoid an at all times and no rubbing eyes with work	
DEA List II Chemicals	: not listed	the laboratory.		
(Essential chemicals)		-	y in microliter quantities for use in life science intended. And any other use may involve su	
States Regulation		tive hazards.		
Massachusetts : The following components are listed		This information is base	This information is based on our present knowledge. However, this sl	
2-Amino-2-(hydroxymethyl)n	ropane-1.3-diol hydrochloride CAS No 1185-5	53-1 not constitute a guarante	e for any specific product features and shall r	

	methyl)propane-1,3-diol hydrochloride acetic acid CAS No 60-00-4	CAS No 1185-53-1
5		
Xylene Cyanol FF	CAS No 2650-17-1	
Bromophenol Blue	CAS No 115-39-9	
Credol Red	CAS No 1733-12-6	
Orange G	CAS No 1936-15-8	
Glycerol	CAS No 56-81-5	
New Jersey : The fo	llowing components are listed	
2-Amino-2-(hydroxy	methyl)propane-1.3-diol hydrochloride	CAS No 1185-53-1

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Ethylenedinitrilotetraac	etic acid	CAS No 60-00-4	
Xylene Cyanol FF	CAS No	2650-17-1	
Bromophenol Blue	CAS No	115-39-9	
Credol Red	CAS No	1733-12-6	
Orange G	CAS No	1936-15-8	
Glycerol	CAS No	56-81-5	
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Pennsylvania : The following components are listed

2-Amino-2-(hydroxym	CAS No 1185-53-1	
Ethylenedinitrilotetraa	cetic acid CAS No 60-00-4	
Xylene Cyanol FF	CAS No 2650-17-1	
Bromophenol Blue	CAS No 115-39-9	
Credol Red	CAS No 1733-12-6	
Orange G	CAS No 1936-15-8	
Glycerol	CAS No 56-81-5	

California Prop. 65 Components :

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulation

No additional information available

16.OTHER INFORMATION

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shall not establish or legally valid contractual relationship. GenDEPOT LLC, shall not be held liable for any damage resulting from handling of or from with above product. The burden of safe use of this material rests entirely with the user.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESEN-TATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

Department issuing MSDS: GenDEPOT LLC Safety Department