

## SAFETY DATA SHEET

Prepared on Commission Regulation (EU) no. 453/2010

1. Identification of the substance/mixture and of the company/undertaking			
<b>Product/substance name</b>	EcoBlue		<b>Revision Date:</b> 26/09/2024 <b>Publish Date:</b> 26/09/2024
<b>Product/substance name</b>	<b>CAS Number</b>	<b>EINECS Number</b>	<b>Index Number</b>
Water soluble dye	147-14-8	-	-
<b>Supplier</b>	Ecoguard Biosciences (Pty) Ltd Johannesburg Epsom Downs Office Park 13 Sloane Street, Bryanston 2194  EMERGENCY CONTACT Tel: (+27) 11 463 6057		
<b>Regd. Office:</b>	Ecoguard Biosciences (Pty) Ltd Johannesburg Epsom Downs Office Park 13 Sloane Street, Bryanston 2194  EMERGENCY CONTACT Tel: (+27) 11 463 6057		
<b>Emergency telephone number</b>	Transport accident:	086 100 0366	
	Treatment for poisoning cases:	082 446 8946	
		(+21) 931 6129	

2. Hazards identification	
Classification not required according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (no dangerous properties)	
<b>Other Hazards</b>	None.

Managing Director: R D Forsyth-Thompson  
 Reg. 1988/01616/07

Material Name: EcoBlue Issue date: 2024 Version 1.1 GHS SDS

### 3. Composition/information on ingredients

Substances	Weight	CAS number	GHS
C.I. pigment blue 15.1 in water, ethylene glycol dispersion	>99%	147-14-8	Not classified as hazardous according to GHS

No components need to be disclosed according to the applicable regulations.

### 4. First aid measures

<b>General advice</b>	No hazards which require special first aid measures. Remove contaminated clothing immediately and safely dispose.
<b>Eye contact</b>	In case of contact with eyes, rinse thoroughly with plenty of lukewarm water and seek medical advice.
<b>Skin contact</b>	In case of contact with skin, wash off immediately with soap and water and seek medical advice.
<b>Ingestion</b>	After ingestion, do not induce vomiting, seek medical help.
<b>Medical Advice</b>	No hazards which require special first aid measures.

### 5. Firefighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	Water, water spray, foam, carbon dioxide (CO <sub>2</sub> ), dry powder.
<b>Fire extinguishing agents to avoid</b>	None

#### Advice for firefighters

No special protective measures against fire required.

See Stability and Reactivity, Section 10 of this Safety Data Sheet.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** None.

**Environmental precautions** Do not allow to enter drains or waterways.

### **Methods and materials for containment and cleaning up**

Pick up with absorbent material (e.g. sand, kieselgur, acid binder, and sawdust).

Keep in suitable and closed containers for disposal.

See Section 13, Disposal Considerations, for additional information.

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** No special measures necessary

**Storage** Keep container tightly closed in a well-ventilated area  
Protect from frost  
Protect from heat

In case of product becoming opaque, thickening or being frozen due to the effects of cold, it can at room temperature be slowly allowed to thaw out and after a short stirring time is once again ready for use.

Storage class: 10/12

Storage stability: Storage period > 12 month

## 8. Exposure controls/personal protection

### National occupational exposure limits

There is no appropriate occupational exposure limit for this material.

### Personal protective equipment

**General protective measures** Avoid contact with eyes and skin.

**Eye/face protection** Safety glasses.

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Reg. 1988/01616/07

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<b>Hand Protection</b>	Gloves are recommended.
<b>Skin Protection</b>	No special protective clothing required.
<b>Respiratory Protection</b>	No special respiratory protection required.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Clean skin thoroughly after work; apply skin cream

## **9. Physical and chemical properties**

### **Physical and Chemical Properties**

<b>Property</b>	<b>Values</b>	<b>Methods</b>	<b>Remarks</b>
<b>Appearance</b>			
Physical state	: Liquid		
Color	: Blue		
Odor	: Odorless		
Odor threshold	: Not applicable		
pH	: 9		
Melting point/freezing point (°C)	:		
Boiling point/boiling range (°C)	:		
Flash point (°C)	:		
Pour point (°C)	:		
Evaporation rate	:		
Flammability (solid, gas)	:		
Upper/lower flammability or explosive limits	:		
Vapor pressure (kPa)	:		
Vapor density	:		
Relative density @ 20°C	:		
Solubility(ies) (mg/l)	: Miscible at 20 °C		
Partition Coefficient (n-octanol/water) Log Pow:	:		
Autoignition temperature (°C)	:		
Decomposition temperature (°C)	: > 80		
Dynamic viscosity (mm <sup>2</sup> /s 40 °C)	: 600		
Kinematic viscosity (mm <sup>2</sup> /s 40 °C)	:		
Explosive properties	:		
Oxidizing properties	:		
<b><u>Other Information</u></b>			
Density (g/cm <sup>3</sup> )	: 1.25		
Surface tension (g/ml)	:		

## 10. Stability and reactivity

<b>Reactivity</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Stable under recommended storage conditions. See Storage, Section 7.
<b><u>Possibility of Hazardous Reactions</u></b>	
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur. None under normal processing.
<b>Conditions to avoid</b>	No special precautions required.
<b>Incompatible materials</b>	None
<b>Hazardous decomposition products</b>	None

## 11. Toxicological information

<u>Acute toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Remarks</u>
Oral (LD50 mg/kg)	: > 2000	Rat	
Dermal (LD50 mg/kg)	:		
Inhalation (LC50 mg/l/4h)	: Not classified		
Skin corrosion/irritation	: Non-irritant		
Serious eye damage/eye irritation	: Non-irritant		
Respiratory/skin sensitization	: Not classified		
 <b><u>Chronic toxicity</u></b>			
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
STOT - single exposure	: Not classified		
STOT - repeated exposure	: Not classified		
Aspiration hazard	: Not classified		

## 12. Ecological information

<b>Ecotoxicity effect</b>	Fish toxicity > 500 milligrams per litre Duration of exposure: 96 hours Species: Zebra fish
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### 13. Disposal considerations

#### Waste treatment methods

**Waste from residues/unused products:** Disposal should be in accordance with applicable regional, national, and local laws and regulations.

**Other Information:** Packaging that cannot be cleaned should be disposed of as product waste.

### 14. Transport information

Not classified as hazardous for transport

### 15. Regulatory information

Not classified as hazardous for supply.

National legislation:

- Regulations For Hazardous Chemical Agents, 2021 as Amended by Notice R 11266 in GG 44366 of 31 March 2021 Republic Of South Africa.
- Occupational Health and Safety Act (Act No. 85 of 1993).

### 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.

#### **Abbreviations and acronyms:**

<b>ADR:</b>	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
<b>RID:</b>	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
<b>IMDG:</b>	International Maritime Code for Dangerous Goods
<b>IATA:</b>	International Air Transport Association (IATA)
<b>ICAO:</b>	International Civil Aviation Organization
<b>ICAO-TI:</b>	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
<b>GHS:</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>EINECS:</b>	European Inventory of Existing Commercial Chemical Substances

**CAS:** Chemical Abstracts Service (division of the American Chemical Society)  
**LC50:** Lethal concentration, 50 percent  
**LD50:** Lethal dose, 50 percent

**References:**

1. European Chemicals Agency (ECHA): Harmonized classification: Pigment Blue 15.1; CAS No. 147-14-8.
2. PubChem (Chemistry database at the National Institutes of Health, part of the U.S. Department of Health and Human Services, is the nation's medical research agency): Pigment Blue 15.1; CAS No. 147-14-8

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