

SAFETY DATA SHEET

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

1. Identification of the substance/mixture and of the company/undertaking			
Product/substance name	EcoRed		Revision Date: 25/09/2024 Publish Date: 25/09/2024
Product/substance name Water soluble dye	CAS Number 6535-46-2	EINECS Number	Index Number
Supplier	Ecoguard Biosciences (Pty) Ltd Johannesburg Epsom Downs Office Park 13 Sloane Street, Bryanston 2194 EMERGENCY CONTACT Tel: (+27) 11 463 6057		
Regd. Office:	Ecoguard Biosciences (Pty) Ltd Johannesburg Epsom Downs Office Park 13 Sloane Street, Bryanston 2194 EMERGENCY CONTACT Tel: (+27) 11 463 6057		
Emergency telephone number	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). Other Hazards None.	

3. Composition/information on ingredients			
Substances	Weight	CAS number	GHS
C.I. pigment red 112 in water, ethylene glycol dispersion.	>99%	6535-46-2	Not classified as hazardous according to GHS
No components need to be disclosed according to the applicable regulations.			

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4. First aid measures

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

5. Firefighting measures

Extinguishing media

Suitable extinguishing media Water, water spray, foam, carbon dioxide (CO₂), dry powder.

Fire extinguishing agents to avoid 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.

Hand Protection Gloves are recommended.

Skin Protection No special protective clothing required.

Respiratory Protection 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

Property	Values	Methods	Remarks
Appearance			
Physical state	: Liquid		
Color	: Red		
Odor	: Odorless		
Odor threshold	: Not applicable		
pH	: 7.5		
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	: > 80		
Solubility(ies) (mg/l)	: Miscible at 20 °C		
Partition Coefficient (n-octanol/water) Log Pow:	:		
Autoignition temperature (°C)	:		
Decomposition temperature (°C)	:		
Dynamic viscosity (mm ² /s 40 °C)	: 600		
Kinematic viscosity (mm ² /s 40 °C)	:		
Explosive properties	:		
Oxidizing properties	:		
Other Information			
Density (g/cm ³)	: 1.13		
Surface tension (g/ml)	:		

10. Stability and reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under recommended storage conditions. See Storage, Section 7.
<u>Possibility of Hazardous Reactions</u>	
Hazardous polymerization	Hazardous polymerization does not occur. None under normal processing.

Conditions to avoid	No special precautions required.
Incompatible materials	None
Hazardous decomposition products	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		
 <u>Chronic toxicity</u>			
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

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

<u>Waste treatment methods</u>	
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:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	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: C.I. pigment red 112; CAS No. 6535-46-2.
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 Red 112; CAS No. 6535-46-2

This Safety Data Sheet (SDS) complies with basic South African and EU regulatory requirements for

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