Safety data sheet

ClearBand ECL Western Blotting Substrate

Product name ClearBand ECL Western Blotting Substrate	Catalog no. ECL50, ECL200
Synonyms Enhanced chemiluminescence Western blot substrate	Original SDS revision -
CAS no. -	Format version / date 3 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ClearBand ECL Western Blotting Substrate
Product code	ECL50, ECL200
CAS number	-
EC number	-
Recommended use	Two-component chemiluminescent substrate for HRP detection on Western blots; research use only.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

GHS/CLP classification	Irritation effects: H315 (skin) and H319 (eyes). Additional GHS Category 5 classifications require evaluation for CLP use.
GHS H-statements	H315 - Causes skin irritation. H319 - Causes serious eye irritation.
GHS pictograms	
Signal word	Warning
Precautionary statements - prevention	P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves and eye/face protection.
Precautionary statements - response	P302+P352 - IF ON SKIN: Wash with soap and water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water and remove contact lenses if possible. P332+P313 / P337+P313 - Seek medical advice if irritation persists.
Other hazards	None known.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ClearBand ECL Western Blotting Substrate
Synonyms	Enhanced chemiluminescence Western blot substrate
Concentration	-
Formula	- (mixture)
Molecular weight	- (mixture)
Product form	Two-component liquid reagent kit
Composition	Two-part product: Solution A (proprietary; contains 4-iodophenol, CAS 540-38-5, EC 208-745-5, less than 0.2%, C6H5IO); Solution B (proprietary). Mix A and B 1:1 before use.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse with plenty of water for at least 15 minutes. Seek medical attention; continue rinsing during transport if needed.
Skin contact	Remove contaminated clothing and shoes; wash with soap and water and consult a physician.
Inhalation	Move to fresh air and seek medical advice. If necessary, trained personnel should provide assisted respiration.
Ingestion	Do not induce vomiting. Rinse mouth, consult a physician; never give anything to an unconscious person.
Self-protection of the first aider	Use appropriate personal protective equipment.
Most important symptoms / effects	Skin and eye irritation; more severe effects are described in the toxicological information.
Immediate medical attention / treatment	Treat symptomatically.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide (CO2).
Unsuitable extinguishing media	No data available
Specific hazards arising from the mixture	Not flammable or combustible under the conditions described.
Explosion data	Impact and static-discharge sensitivity: no information available.
Advice for firefighters	Use self-contained breathing apparatus if required.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid skin and eye contact and inhalation of vapours or mist; ventilate the area.
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	Absorb spilled liquid with inert material, collect and place in appropriate closed containers.
Reference to other sections	See Section 8 for protection and Section 13 for disposal.

07 HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes and skin; provide ventilation and use normal preventive fire measures.
Conditions for safe storage	Keep tightly closed in a dry, well-ventilated place. Recommended storage: 4°C.
Container labelling	Keep containers properly labelled.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No specific mixture occupational exposure limit values are identified.

8.2 Exposure controls

Engineering measures	Ensure adequate ventilation, especially in confined areas.
Hygiene measures	Use good laboratory and industrial hygiene. Do not eat, drink or smoke while handling. Wash hands after use.
Eye / face protection	Tightly fitting goggles and face shield for splash exposure.
Hand protection	Chemical-resistant protective gloves.
Skin and body protection	Chemical-resistant protective clothing as appropriate to concentration and quantity.
Respiratory protection	Use approved respiratory protection where indicated by risk assessment.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No data available
Odor threshold	No data available
pH	9.6
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

10 STABILITY AND REACTIVITY

Reactivity	Stable under recommended storage conditions.
Chemical stability	Stable in a cool, dark and dry place.
Possibility of hazardous reactions	No data available
Conditions to avoid	Heat, high temperatures and direct sunlight.
Incompatible materials	Strong oxidizing agents, strong acids and bases.
Hazardous decomposition products	Thermal decomposition may yield carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No data available.
Skin corrosion / irritation	Skin burns are described among potential health effects.
Serious eye damage / eye irritation	Eye burns are described among potential health effects.
Carcinogenicity	4-Iodophenol animal dermal observations reported; human carcinogenic classification is not established.
Reproductive toxicity	No data available.
STOT - SE	No data available
STOT - RE	No data available
Aspiration hazard	No data available

11.2 Potential health effects

Ingestion: May be harmful if swallowed.
Inhalation: Potential severe irritation of mucous membranes and upper respiratory tract.
Skin: Burns are reported among possible effects.
Eyes: Burns are reported among possible effects.

11.3 Additional information

No additional information is available

12 ECOLOGICAL INFORMATION

Ecotoxicity	Aquatic environmental harm cannot be excluded; avoid uncontrolled release.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose through a licensed waste-disposal service in accordance with applicable local and national regulations.
Contaminated packaging	Dispose of as unused product. Do not reuse empty containers.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
DOT (US)	-	Not regulated as dangerous goods	-	-	No
IMDG	-	Not regulated as dangerous goods	-	-	No
IATA	-	Not regulated as dangerous goods	-	-	No

- = Not applicable / not assigned.

Special precautions for user	Keep tightly closed during transport. Follow normal laboratory precautions.
Transport in bulk according to MARPOL / IBC	Not applicable.

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Regulation (EC) No. 1272/2008 (CLP); US SARA and applicable state right-to-know requirements. 4-Iodophenol, CAS 540-38-5, is identified in certain right-to-know inventories.
Environmental hazards	See Section 12.
Chemical safety assessment	-

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent and Very Bioaccumulative
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail