Safety data sheet

ClearBand TRUEzol Reagent

Product name ClearBand TRUEzol Reagent	Catalog no. TR100
Synonyms Phenol-containing total RNA isolation reagent	Source SDS revision -
CAS no. -	Format version / date 3 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ClearBand TRUEzol Reagent
Product code	TR100 (100 mL)
CAS number	-
EC number	-
Recommended use	Total RNA isolation from animal/plant tissues, cells and bacteria; laboratory research use only. Not for diagnostic or therapeutic use.
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

Classification	Phenol-containing mixture: acute toxicity, corrosion and chronic health effects.
Label elements	GHS05 / GHS06 / GHS08
Symbols / pictograms	
Signal word	Danger
Hazard statements	H302 Harmful if swallowed; H311+H331 Toxic by skin contact or inhalation; H314 Severe skin burns and eye damage; H341 Suspected genetic damage; H373 Possible organ damage after repeated exposure.
Precautionary statements - Prevention	P260 Do not breathe vapours. P273 Avoid environmental release. P280 Wear chemical-resistant gloves, clothing and eye/face protection.
Precautionary statements - Response	P301+P310 IF SWALLOWED: Call POISON CENTER/doctor. P303+P361+P353 IF ON SKIN: Remove clothing, rinse skin. P305+P351+P338 IF IN EYES: Rinse with water. P310 Seek urgent medical care.
Other hazards	Phenol may be absorbed through skin. Never mix waste with bleach or acids.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ClearBand TRUEzol Reagent
Synonyms	Phenol-containing total RNA isolation reagent
Concentration	Proprietary liquid mixture; component concentrations not available
Formula	Not applicable (mixture)
Molecular weight	Not applicable (mixture)
Substance statement	Phenol (CAS 108-95-2)

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Immediately flush with water for at least 15 minutes, holding eyelids open. Remove contact lenses if easy. Obtain urgent medical attention.
Skin contact	Take off contaminated clothing at once. Wash skin thoroughly with water for at least 15 minutes. Seek emergency medical treatment; phenol may penetrate skin.
Inhalation	Move the person to fresh air. Keep comfortable for breathing. Contact a physician or poison center immediately.
Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything orally to an unconscious person. Contact a poison center or physician immediately.
Self-protection of first aider	Avoid personal exposure. Use chemical-resistant gloves, eye/face protection and adequate ventilation when helping an exposed person.
Most important symptoms / effects	Chemical burns, systemic phenol toxicity, eye damage and possible delayed systemic effects following skin or inhalation exposure.
Notes to physicians	Urgent medical evaluation is indicated after significant exposure. Treat symptomatically; consult a poison center.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), alcohol-resistant foam or dry chemical, as appropriate for the surrounding fire.
Unsuitable extinguishing media	Avoid high-pressure water jets that spread contaminated liquid.
Special hazards arising from the substance or mixture	Fire or intense heat may release toxic fumes, including carbon monoxide, nitrogen oxides and other decomposition gases.
Explosion data	No product-specific explosive limits available. Prevent heating and accumulation of vapours.
Advice for firefighters	Firefighters must wear full protective equipment and self-contained breathing apparatus. Contain contaminated extinguishing water.

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Restrict access. Increase ventilation; avoid breathing mist or vapour. Wear splash goggles/face shield, chemical-resistant gloves and protective clothing.
Environmental precautions	Prevent entry into drains, sewage systems, soil and surface waters.
Methods and materials for containment and cleaning up	Absorb with inert material; transfer to a sealed, properly labelled hazardous-waste container. Do not mix spill or waste with bleach or acids.
Reference to other sections	See Sections 8 and 13 for protective equipment and disposal.

07 HANDLING AND STORAGE

Precautions for safe handling	Handle in a chemical fume hood. Avoid splashes, aerosol formation, ingestion and skin contact. Never pipette by mouth; keep eyewash and safety shower accessible.
Conditions for safe storage	Store tightly closed at 4-8°C, away from heat, light and incompatible chemicals. Use the original container.
Container labeling	Keep the original 100 mL bottle labelled with product identity, hazard precautions and storage conditions.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Phenol: observe applicable local occupational exposure limits (CAS 108-95-2). Product-specific exposure limits are not available.

8.2 Exposure controls

Engineering measures	Use a certified chemical fume hood, local exhaust ventilation, emergency eyewash and safety shower.
Hygiene measures	Wash hands after handling. Do not eat, drink or smoke. Remove contaminated clothing promptly.
Eye / face protection	Wear chemical splash goggles and a face shield where splashes are possible (EN 166).
Hand protection	Use phenol-compatible chemical-resistant gloves selected according to the supplier breakthrough data; replace immediately if contaminated.
Skin and body protection	Wear buttoned lab coat, chemical-resistant apron where appropriate, long trousers and closed shoes.
Respiratory protection	Use an approved respirator only where engineering controls cannot adequately control exposure, under a formal protection program.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid; phenol-containing reagent
Odor	No product-specific data available
Odor threshold	No data available
pH	No data available
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)	Not applicable (liquid); ignition data not 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 product-specific solubility 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	May react with strong oxidizers; avoid uncontrolled mixing with incompatible chemicals.
Chemical stability	Stable when kept tightly closed and handled at the recommended storage temperature.
Possibility of hazardous reactions	No hazardous polymerization expected; toxic products can form if mixed with incompatible substances.
Conditions to avoid	Excessive heating, aerosol generation, strong oxidizers, acids and bleach/hypochlorite.
Incompatible materials	Strong oxidizing agents, acids and hypochlorite-containing products (bleach).
Hazardous decomposition products	Toxic vapours, nitrogen oxides and carbon oxides may form on heating or decomposition.

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Phenol is harmful/toxic via ingestion, skin contact and inhalation. Mixture-specific acute toxicity estimates are not available.
Skin corrosion / irritation	Contains phenol; serious skin burns may result after contact.
Serious eye damage / eye irritation	Splash exposure may cause severe eye damage and permanent injury.
Carcinogenicity	No product-specific carcinogenicity classification data available.
Reproductive toxicity	No product-specific reproductive toxicity data available.
STOT - SE	Exposure may irritate respiratory tract and mucous membranes.
STOT - RE	Repeated phenol exposure may damage organs; product-specific data are not available.
Aspiration hazard	No product-specific aspiration hazard data available.

11.2 Potential health effects

Ingestion: Harmful or toxic; may cause burns and systemic effects.
Inhalation: Vapours may injure respiratory tissue.
Skin: Corrosive injury; phenol can be absorbed through intact skin.
Eyes: Severe burns and serious eye damage.

11.3 Additional information

No product-specific toxicological study data available. Evaluate possible delayed systemic effects after exposure.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Phenol may harm aquatic organisms. Avoid uncontrolled release. No product-specific aquatic toxicity data available.
Persistence and degradability	No mixture-specific persistence/degradability information available.
Bioaccumulative potential	No mixture-specific bioaccumulation data available.
Mobility in soil	No mixture-specific soil mobility data available.
Results of PBT and vPvB assessment	No product-specific PBT or vPvB assessment data available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Collect reagent and contaminated absorbents as hazardous phenol-containing chemical waste. Use a licensed disposal contractor. Do not pour into drains or combine with bleach/acids.
Contaminated packaging	Treat contaminated bottles and packaging as hazardous chemical waste. 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
ADR/RID	UN2922	CORROSIVE LIQUID, TOXIC, N.O.S.	8 (6.1)	II	Not determined
IMDG	UN2922	CORROSIVE LIQUID, TOXIC, N.O.S.	8 (6.1)	II	Not determined
IATA	UN2922	CORROSIVE LIQUID, TOXIC, N.O.S.	8 (6.1)	II	Not determined

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP). Phenol (CAS 108-95-2) is present; final mixture-specific classification and composition review are required.
Environmental hazards	Prevent release to the environment; final environmental transport status is not determined.
Chemical safety assessment	No product-specific chemical safety assessment information available.

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 very Bioaccumulative and toxic
ADR	European 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 code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail

Transport information in Section 14 is provisional only. Final mixture-specific CLP and dangerous-goods classification, including UN number and packing group, must be confirmed before issue or shipment.