Safety data sheet

E2090 | KIT COMPONENTS

Product code	Revision
E2090	v1 / 25 October 2026
Document type	**Number of components**
Combined component MSDS	5

Contents

Each reagent below has a separate 16-section safety data sheet.

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Safety identification

Lysis/Binding Buffer: GHS07 (H302, H315, H319, H332). EcoSpin RBCL Buffer: GHS07 (H319; skin irritation Category 2 also reported). Elution Buffer, Wash Buffer 1 and Wash Buffer 2 have no GHS classification assigned in Section 2.

For research use only. Not intended for diagnostic or therapeutic use.

The hazard classification of each component applies to that component only; this document does not classify the assembled kit as a single chemical mixture.

Safety data sheet

Elution Buffer

Product name Elution Buffer	Catalog no. E2090
Synonyms -	Original issue 12 June 2026
CAS no. -	Revision / date v1 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	Elution Buffer
Product code	E2090
CAS number	-
EC number	-
Recommended use	Elution Buffer reagent in EcoTech E2090 research kits. For 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

GHS/CLP classification	Not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP).
Hazard statements	None
GHS pictograms	None
Signal word	None
Precautionary statements - prevention	Follow standard laboratory hygiene and wear suitable personal protective equipment.
Precautionary statements - response	Rinse exposed skin or eyes with water; seek medical advice if symptoms occur.
Other hazards	No other hazards identified in the supplied classification.

Composition & response

Elution Buffer | SAFETY DATA SHEET / SECTIONS 03-05

03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	Elution Buffer
Synonyms	-
Concentration	-
Formula	-
Molecular weight	-
Product form	Liquid mixture
Composition / ingredient information	No hazardous components requiring disclosure at supplied concentrations are identified.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.
Skin contact	Rinse affected skin thoroughly with water. Seek medical advice if irritation persists.
Inhalation	Move to fresh air. Seek medical advice if discomfort or symptoms occur.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Seek medical advice if unwell.
Self-protection of the first aider	Use personal protective equipment as required.
Most important symptoms and effects	No specific symptoms provided.
Immediate medical attention / treatment	Seek medical advice for ingestion, breathing difficulties or significant exposure.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), foam or dry chemical.
Unsuitable extinguishing media	No information available.
Special hazards arising from the product	No specific fire hazards identified.
Explosion data	No information on mechanical impact or static discharge sensitivity.
Advice for firefighters	Wear appropriate protective gear and self-contained breathing apparatus where necessary.

Safe use & protection

Elution Buffer | SAFETY DATA SHEET / SECTIONS 06-08

06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use appropriate protective equipment and adequate ventilation; avoid contact with skin and eyes.
Environmental precautions	No special environmental precautions specified.
Methods and materials for containment and cleaning up	Absorb using inert absorbent material and collect in suitable closed containers.
Reference to other sections	Refer to Section 8 for PPE and Section 13 for waste handling.

07 HANDLING AND STORAGE

Precautions for safe handling	Wear gloves and protective eyewear; avoid ingestion, inhalation and contact with eyes/skin. Keep away from acids and bleach.
Conditions for safe storage	Keep tightly closed in a cool, dry, well-ventilated area away from incompatible substances.
Container labelling	Keep in properly labelled containers, closed when not in use.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No product-specific occupational exposure limit values are identified.

8.2 Exposure controls

Engineering measures	Ensure adequate ventilation, particularly in enclosed work areas.
Hygiene measures	Do not eat, drink or smoke while handling. Wash hands, forearms and face after handling.
Eye / face protection	Tight-sealing safety goggles.
Hand protection	Compatible chemical-resistant protective gloves.
Skin and body protection	Laboratory coat or other protective clothing suitable for the exposure conditions.
Respiratory protection	Use suitable respiratory protection if ventilation is inadequate.

Material properties

Elution Buffer | SAFETY DATA SHEET / SECTIONS 09-10

09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No 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)	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	Not applicable.
Chemical stability	Stable at a cool and dry place.
Possibility of hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	Contact with acids or bleach liberates toxic gases. Do not mix with bleach-containing liquid waste.
Incompatible materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides.

Health & environment

Elution Buffer | SAFETY DATA SHEET / SECTIONS 11-13

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No evidence of acute toxicity reported for the mixture.
Skin corrosion / irritation	Skin irritation reported.
Serious eye damage / eye irritation	Irritating to eyes.
Carcinogenicity	Data are conclusive but insufficient for classification.
Reproductive toxicity	Data are conclusive but insufficient for classification.
STOT - SE	Data are conclusive but insufficient for classification.
STOT - RE	Data are conclusive but insufficient for classification.
Aspiration hazard	Data are conclusive but insufficient for classification.

11.2 Potential health effects

Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled and irritate the respiratory tract.
Skin: May cause irritation.
Eyes: May cause eye irritation.

11.3 Additional information

No additional toxicological information available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No specific environmental hazard identified in the supplied mixture classification.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No information available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Use a licensed professional waste disposal service as appropriate. Follow all applicable local and national requirements.
Contaminated packaging	Dispose of as unused product. Do not reuse empty containers.

Transport & reference

Elution Buffer | SAFETY DATA SHEET / SECTIONS 14-16

14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Env. hazard
ADR/RID	-	Not regulated as dangerous goods	-	-	No
IMDG	-	Not regulated as dangerous goods	-	-	No
IATA	-	Not regulated as dangerous goods	-	-	No

- = not assigned or not applicable.

Special precautions for user	Follow standard laboratory transport and packaging precautions.
Transport in bulk according to MARPOL / IBC	Not applicable.

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	The EU REACH / CLP framework applies as relevant to the supplied mixture or substance. No additional specific authorisations or restrictions are identified in the supplied regulatory entries.
Environmental hazards	Not applicable.
Chemical safety assessment	No chemical safety assessment is reported for the product.

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	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	International transport of dangerous goods by rail

Safety data sheet

Lysis/Binding Buffer

Product name Lysis/Binding Buffer	Catalog no. E2090
Synonyms -	Original issue 12 June 2026
CAS no. -	Revision / date v1 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	Lysis/Binding Buffer
Product code	E2090
CAS number	-
EC number	-
Recommended use	Lysis/Binding Buffer reagent in EcoTech E2090 research kits. For 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

GHS/CLP classification	Acute Tox. 4 (oral); Acute Tox. 4 (inhalation); Skin Irrit. 2; Eye Irrit. 2 (CLP).
Hazard statements	H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H332 - Harmful if inhaled.
GHS pictograms	None
Signal word	Warning
Precautionary statements - prevention	P264 - Wash hands after handling. P270 - Do not eat, drink or smoke while using. P280 - Wear protective gloves, clothing and eye protection.
Precautionary statements - response	P301+P310 - IF SWALLOWED: Call a POISON CENTER or doctor. P302+P352 - IF ON SKIN: Wash with soap and water. P305+P351+P338 - IF IN EYES: Rinse with water and remove contact lenses if possible. P330 - Rinse mouth. P332+P313 - Seek medical advice for skin irritation.
Other hazards	Do not mix guanidine-containing waste with acids or bleach; toxic gases may be released.

Composition & response

Lysis/Binding Buffer | SAFETY DATA SHEET / SECTIONS 03-05

03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	Lysis/Binding Buffer
Synonyms	-
Concentration	-
Formula	-
Molecular weight	-
Product form	Liquid mixture
Composition / ingredient information	Guanidine hydrochloride (CAS 50-01-1): 70-85% by weight.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.
Skin contact	Rinse affected skin thoroughly with water. Seek medical advice if irritation persists.
Inhalation	Move to fresh air. Seek medical advice if discomfort or symptoms occur.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Seek medical advice if unwell.
Self-protection of the first aider	Use personal protective equipment as required.
Most important symptoms and effects	H302/H315/H319/H332: harmful if swallowed or inhaled; irritating to skin and eyes.
Immediate medical attention / treatment	Treat symptomatically; obtain medical advice if symptoms persist.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), foam or dry chemical.
Unsuitable extinguishing media	No information available.
Special hazards arising from the product	Potential hazardous decomposition products; avoid incompatible chemical contact.
Explosion data	No information on mechanical impact or static discharge sensitivity.
Advice for firefighters	Wear appropriate protective gear and self-contained breathing apparatus where necessary.

Safe use & protection

Lysis/Binding Buffer | SAFETY DATA SHEET / SECTIONS 06-08

06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use appropriate protective equipment and adequate ventilation; avoid contact with skin and eyes.
Environmental precautions	No special environmental precautions specified.
Methods and materials for containment and cleaning up	Absorb using inert absorbent material and collect in suitable closed containers.
Reference to other sections	Refer to Section 8 for PPE and Section 13 for waste handling.

07 HANDLING AND STORAGE

Precautions for safe handling	Handle with standard laboratory hygiene, suitable PPE and adequate ventilation.
Conditions for safe storage	Keep tightly closed in a cool, dry, well-ventilated area away from incompatible substances.
Container labelling	Keep in properly labelled containers, closed when not in use.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No product-specific occupational exposure limit values are identified.

8.2 Exposure controls

Engineering measures	Ensure adequate ventilation, particularly in enclosed work areas.
Hygiene measures	Do not eat, drink or smoke while handling. Wash hands, forearms and face after handling.
Eye / face protection	Tight-sealing safety goggles.
Hand protection	Chemical-resistant protective gloves; inspect gloves before use.
Skin and body protection	Laboratory coat or other protective clothing suitable for the exposure conditions.
Respiratory protection	Use suitable respiratory protection if ventilation is inadequate.

Material properties

Lysis/Binding Buffer | SAFETY DATA SHEET / SECTIONS 09-10

09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No 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)	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.
Chemical stability	Stable at a cool and dry place.
Possibility of hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	Contact with acids or bleach may liberate toxic gases. Never mix with bleach-containing waste.
Incompatible materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	Carbon oxides, nitrogen oxides (NOx), sulphur oxides.

Health & environment

Lysis/Binding Buffer | SAFETY DATA SHEET / SECTIONS 11-13

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Guanidine hydrochloride: LD50 oral 354 mg/kg (rat); LD50 dermal 1,100 mg/kg; LC50 inhalation 11 mg/L, 4 h.
Skin corrosion / irritation	Skin irritation.
Serious eye damage / eye irritation	Irritating to eyes.
Carcinogenicity	Data are conclusive but insufficient for classification.
Reproductive toxicity	Data are conclusive but insufficient for classification.
STOT - SE	Data are conclusive but insufficient for classification.
STOT - RE	Data are conclusive but insufficient for classification.
Aspiration hazard	Data are conclusive but insufficient for classification.

11.2 Potential health effects

No mixture-specific adverse health effects reported; follow good laboratory hygiene.

11.3 Additional information

No additional toxicological information available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No data available for the mixture.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Use a licensed professional waste disposal service as appropriate. Follow all applicable local and national requirements.
Contaminated packaging	Dispose of as unused product. Do not reuse empty containers.

Transport & reference

Lysis/Binding Buffer | SAFETY DATA SHEET / SECTIONS 14-16

14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Env. hazard
ADR/RID	-	Not regulated as dangerous goods	-	-	No
IMDG	-	Not regulated as dangerous goods	-	-	No
IATA	-	Not regulated as dangerous goods	-	-	No

- = not assigned or not applicable.

Special precautions for user	Follow standard laboratory transport and packaging precautions.
Transport in bulk according to MARPOL / IBC	Not applicable.

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	The EU REACH / CLP framework applies as relevant to the supplied mixture or substance. No additional specific authorisations or restrictions are identified in the supplied regulatory entries.
Environmental hazards	Guanidine hydrochloride: slightly hazardous to water (reported hazard class 1).
Chemical safety assessment	No chemical safety assessment is reported for the product.

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	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	International transport of dangerous goods by rail

Safety data sheet

Wash Buffer 1

Product name Wash Buffer 1	Catalog no. E2090
Synonyms -	Original issue 12 June 2026
CAS no. -	Revision / date v1 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	Wash Buffer 1
Product code	E2090
CAS number	-
EC number	-
Recommended use	Wash Buffer 1 reagent in EcoTech E2090 research kits. For 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

GHS/CLP classification	Not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP).
Hazard statements	None
GHS pictograms	None
Signal word	None
Precautionary statements - prevention	Follow standard laboratory hygiene and wear suitable personal protective equipment.
Precautionary statements - response	Rinse exposed skin or eyes with water; seek medical advice if symptoms occur.
Other hazards	No other hazards identified in the supplied classification.

Composition & response

Wash Buffer 1 | SAFETY DATA SHEET / SECTIONS 03-05

03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	Wash Buffer 1
Synonyms	-
Concentration	-
Formula	-
Molecular weight	-
Product form	Liquid mixture
Composition / ingredient information	Sodium acetate (CAS 127-09-3): 20-25% by weight.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.
Skin contact	Rinse affected skin thoroughly with water. Seek medical advice if irritation persists.
Inhalation	Move to fresh air. Seek medical advice if discomfort or symptoms occur.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Seek medical advice if unwell.
Self-protection of the first aider	Use personal protective equipment as required.
Most important symptoms and effects	No specific symptoms provided.
Immediate medical attention / treatment	Treat symptomatically; obtain medical advice if symptoms persist.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), foam or dry chemical.
Unsuitable extinguishing media	No information available.
Special hazards arising from the product	Fire may generate carbon oxides and sodium oxides.
Explosion data	No information on mechanical impact or static discharge sensitivity.
Advice for firefighters	Wear appropriate protective gear and self-contained breathing apparatus where necessary.

Safe use & protection

Wash Buffer 1 | SAFETY DATA SHEET / SECTIONS 06-08

06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use appropriate protective equipment and adequate ventilation; avoid contact with skin and eyes.
Environmental precautions	Prevent significant releases to drains and waterways.
Methods and materials for containment and cleaning up	Absorb using inert absorbent material and collect in suitable closed containers.
Reference to other sections	Refer to Section 8 for PPE and Section 13 for waste handling.

07 HANDLING AND STORAGE

Precautions for safe handling	Ensure good ventilation, avoid eye and skin contact, and wear suitable protective equipment.
Conditions for safe storage	Keep tightly closed in a cool, dry, well-ventilated area away from incompatible substances.
Container labelling	Keep in properly labelled containers, closed when not in use.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No product-specific occupational exposure limit values are identified.

8.2 Exposure controls

Engineering measures	Ensure adequate ventilation, particularly in enclosed work areas.
Hygiene measures	Do not eat, drink or smoke while handling. Wash hands, forearms and face after handling.
Eye / face protection	Safety glasses with side shields conforming to EN 166.
Hand protection	Chemical-resistant protective gloves; inspect gloves before use.
Skin and body protection	Laboratory coat or other protective clothing suitable for the exposure conditions.
Respiratory protection	Use suitable respiratory protection if ventilation is inadequate.

Material properties

Wash Buffer 1 | SAFETY DATA SHEET / SECTIONS 09-10

09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No 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)	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
Chemical stability	Stable at a cool and dry place.
Possibility of hazardous reactions	No data available
Conditions to avoid	No information available.
Incompatible materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	No data available

Health & environment

Wash Buffer 1 | SAFETY DATA SHEET / SECTIONS 11-13

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Sodium acetate: LD50 oral 2,700 mg/kg (rat); LD50 dermal >20,000 mg/kg (rabbit); LC50 inhalation >5.6 mg/L (rat, 4 h).
Skin corrosion / irritation	Data are conclusive but insufficient for classification.
Serious eye damage / eye irritation	Data are conclusive but insufficient for classification.
Carcinogenicity	None of the ingredients is listed.
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: May be harmful if inhaled and may irritate the respiratory tract.
Skin: May cause irritation.
Eyes: Irritation and serious eye damage are described in the toxicology data.

11.3 Additional information

No additional toxicological information available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Contains no substances known to be hazardous to the environment at the concentrations specified.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment is not required/was not conducted.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Use a licensed professional waste disposal service as appropriate. Follow all applicable local and national requirements.
Contaminated packaging	Dispose of as unused product. Do not reuse empty containers.

Transport & reference

Wash Buffer 1 | SAFETY DATA SHEET / SECTIONS 14-16

14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Env. hazard
ADR/RID	-	Not regulated as dangerous goods	-	-	No
IMDG	-	Not regulated as dangerous goods	-	-	No
IATA	-	Not regulated as dangerous goods	-	-	No

- = not assigned or not applicable.

Special precautions for user	Follow standard laboratory transport and packaging precautions.
Transport in bulk according to MARPOL / IBC	Not applicable.

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	The EU REACH / CLP framework applies as relevant to the supplied mixture or substance. No additional specific authorisations or restrictions are identified in the supplied regulatory entries.
Environmental hazards	Not applicable.
Chemical safety assessment	No chemical safety assessment is reported for the product.

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	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	International transport of dangerous goods by rail

Safety data sheet

Wash Buffer 2 (concentrated)

Product name Wash Buffer 2 (concentrated)	Catalog no. E2090
Synonyms -	Original issue 12 June 2026
CAS no. -	Revision / date v1 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	Wash Buffer 2 (concentrated)
Product code	E2090
CAS number	-
EC number	-
Recommended use	Wash Buffer 2 (concentrated) reagent in EcoTech E2090 research kits. For 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

GHS/CLP classification	Not classified as hazardous under Regulation (EC) No. 1272/2008 (CLP).
Hazard statements	None
GHS pictograms	None
Signal word	None
Precautionary statements - prevention	Follow standard laboratory hygiene and wear suitable personal protective equipment.
Precautionary statements - response	Rinse exposed skin or eyes with water; seek medical advice if symptoms occur.
Other hazards	No other hazards identified in the supplied classification.

Composition & response

Wash Buffer 2 (concentrated) | SAFETY DATA SHEET / SECTIONS 03-05

03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	Wash Buffer 2 (concentrated)
Synonyms	-
Concentration	-
Formula	-
Molecular weight	-
Product form	Liquid mixture
Composition / ingredient information	No hazardous components requiring disclosure at supplied concentrations are identified.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing.
Skin contact	Rinse affected skin thoroughly with water. Seek medical advice if irritation persists.
Inhalation	Move to fresh air. Seek medical advice if discomfort or symptoms occur.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Seek medical advice if unwell.
Self-protection of the first aider	Use personal protective equipment as required.
Most important symptoms and effects	No specific symptoms provided.
Immediate medical attention / treatment	Treat symptomatically; obtain medical advice if symptoms persist.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), foam or dry chemical.
Unsuitable extinguishing media	No information available.
Special hazards arising from the product	No specific fire hazards identified.
Explosion data	No information on mechanical impact or static discharge sensitivity.
Advice for firefighters	Wear appropriate protective gear and self-contained breathing apparatus where necessary.

Safe use & protection

Wash Buffer 2 (concentrated) | SAFETY DATA SHEET / SECTIONS 06-08

06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use appropriate protective equipment and adequate ventilation; avoid contact with skin and eyes.
Environmental precautions	No special environmental precautions specified.
Methods and materials for containment and cleaning up	Absorb using inert absorbent material and collect in suitable closed containers.
Reference to other sections	Refer to Section 8 for PPE and Section 13 for waste handling.

07 HANDLING AND STORAGE

Precautions for safe handling	Handle with standard laboratory hygiene, suitable PPE and adequate ventilation.
Conditions for safe storage	Keep tightly closed in a cool, dry, well-ventilated area away from incompatible substances.
Container labelling	Keep in properly labelled containers, closed when not in use.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No product-specific occupational exposure limit values are identified.

8.2 Exposure controls

Engineering measures	Ensure adequate ventilation, particularly in enclosed work areas.
Hygiene measures	Do not eat, drink or smoke while handling. Wash hands, forearms and face after handling.
Eye / face protection	Tight-sealing safety goggles.
Hand protection	Chemical-resistant protective gloves; inspect gloves before use.
Skin and body protection	Laboratory coat or other protective clothing suitable for the exposure conditions.
Respiratory protection	Use suitable respiratory protection if ventilation is inadequate.

Material properties

Wash Buffer 2 (concentrated) | SAFETY DATA SHEET / SECTIONS 09-10

09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No data available
Odor threshold	No data available
pH	7.5
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.
Chemical stability	Stable at a cool and dry place.
Possibility of hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	No information available.
Incompatible materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	No data available.

Health & environment

Wash Buffer 2 (concentrated) | SAFETY DATA SHEET / SECTIONS 11-13

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No evidence of acute toxicity reported for the mixture.
Skin corrosion / irritation	Data are conclusive but insufficient for classification.
Serious eye damage / eye irritation	Data are conclusive but insufficient for classification.
Carcinogenicity	Data are conclusive but insufficient for classification.
Reproductive toxicity	Data are conclusive but insufficient for classification.
STOT - SE	Data are conclusive but insufficient for classification.
STOT - RE	Data are conclusive but insufficient for classification.
Aspiration hazard	Data are conclusive but insufficient for classification.

11.2 Potential health effects

No mixture-specific adverse health effects reported; follow standard laboratory hygiene.

11.3 Additional information

No additional toxicological information available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	No specific environmental hazard identified in the supplied mixture classification.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Use a licensed professional waste disposal service as appropriate. Follow all applicable local and national requirements.
Contaminated packaging	Dispose of as unused product. Do not reuse empty containers.

Transport & reference

Wash Buffer 2 (concentrated) | SAFETY DATA SHEET / SECTIONS 14-16

14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Env. hazard
ADR/RID	-	Not regulated as dangerous goods	-	-	No
IMDG	-	Not regulated as dangerous goods	-	-	No
IATA	-	Not regulated as dangerous goods	-	-	No

- = not assigned or not applicable.

Special precautions for user	Follow standard laboratory transport and packaging precautions.
Transport in bulk according to MARPOL / IBC	Not applicable.

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	The EU REACH / CLP framework applies as relevant to the supplied mixture or substance. No additional specific authorisations or restrictions are identified in the supplied regulatory entries.
Environmental hazards	Not applicable.
Chemical safety assessment	No chemical safety assessment is reported for the product.

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	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	International transport of dangerous goods by rail

Safety data sheet

EcoSpin RBCL Buffer

Product name EcoSpin RBCL Buffer	Catalog no. E2090
Synonyms 10x Red Blood Cell Lysis Buffer	Original issue 26 March 2022
CAS no. -	Revision / date v1 / 25 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	EcoSpin RBCL Buffer
Product code	E2090
CAS number	-
EC number	-
Recommended use	10x red blood cell lysis reagent in the EcoTech E2090 research kit. For research use only; not intended 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

GHS/CLP classification	Skin irritation Category 2; Eye irritation Category 2 (CLP), as reported.
Hazard statements	H319 - Causes serious eye irritation. Skin irritation Category 2 is additionally stated in the classification.
GHS pictograms	GHS07
Signal word	Warning
Precautionary statements - prevention	P264 - Wash skin thoroughly after handling. P280 - Wear protective gloves, clothing and eye/face protection.
Precautionary statements - response	Immediately rinse exposed eyes or skin with water for at least 15 minutes and seek medical attention.
Other hazards	Other hazards not otherwise classified are not specified.

Composition & response

EcoSpin RBCL Buffer | SAFETY DATA SHEET / SECTIONS 03-05

03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	EcoSpin RBCL Buffer
Synonyms	10x Red Blood Cell Lysis Buffer
Concentration	10x
Formula	-
Molecular weight	-
Product form	Liquid mixture
Composition / ingredient information	Ammonium chloride (CAS 12125-02-9): 5-8% by weight.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Immediately flush open eyes with running water for at least 15 minutes. Obtain medical attention.
Skin contact	Flush skin with running water for at least 15 minutes while removing contaminated clothing; wash clothing before reuse.
Inhalation	Move to fresh air. If breathing is difficult, obtain medical assistance.
Ingestion	Do not induce vomiting without medical advice. Rinse mouth and seek medical attention.
Self-protection of the first aider	Use personal protective equipment as required.
Most important symptoms and effects	Eye irritation and potential skin inflammation.
Immediate medical attention / treatment	Seek medical advice for ingestion, breathing difficulties or significant exposure.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), foam or dry chemical.
Unsuitable extinguishing media	No information available.
Special hazards arising from the product	During fire, irritating or toxic gases may be generated by thermal decomposition.
Explosion data	No information on mechanical impact or static discharge sensitivity.
Advice for firefighters	Wear appropriate protective gear and self-contained breathing apparatus where necessary.

Safe use & protection

EcoSpin RBCL Buffer | SAFETY DATA SHEET / SECTIONS 06-08

06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use appropriate protective equipment and adequate ventilation; avoid contact with skin and eyes.
Environmental precautions	Avoid release to drains, soil or waterways.
Methods and materials for containment and cleaning up	Absorb using inert absorbent material and collect in suitable closed containers.
Reference to other sections	Refer to Section 8 for PPE and Section 13 for waste handling.

07 HANDLING AND STORAGE

Precautions for safe handling	Wear gloves and protective eyewear; avoid ingestion, inhalation and contact with eyes/skin. Keep away from acids and bleach.
Conditions for safe storage	Keep tightly closed in a cool, dry, well-ventilated area. Recommended storage temperature: 2-8 degrees C.
Container labelling	Keep in properly labelled containers, closed when not in use.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No product-specific occupational exposure limit values are identified.

8.2 Exposure controls

Engineering measures	Ensure adequate ventilation, particularly in enclosed work areas.
Hygiene measures	Do not eat, drink or smoke while handling. Wash hands, forearms and face after handling.
Eye / face protection	Tight-sealing safety goggles.
Hand protection	Compatible chemical-resistant protective gloves.
Skin and body protection	Laboratory coat or other protective clothing suitable for the exposure conditions.
Respiratory protection	Use suitable respiratory protection if ventilation is inadequate.

Material properties

EcoSpin RBCL Buffer | SAFETY DATA SHEET / SECTIONS 09-10

09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No 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)	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	Not applicable.
Chemical stability	Stable under recommended temperatures and pressures.
Possibility of hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides.

Health & environment

EcoSpin RBCL Buffer | SAFETY DATA SHEET / SECTIONS 11-13

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Ammonium chloride: oral LD50 1,650 mg/kg (rat); dermal LD50 >2,000 mg/kg (rat).
Skin corrosion / irritation	Skin inflammation may include itching, redness, blistering or dryness.
Serious eye damage / eye irritation	Eye exposure may cause redness, pain and serious irritation.
Carcinogenicity	Data are conclusive but insufficient for classification.
Reproductive toxicity	Data are conclusive but insufficient for classification.
STOT - SE	Data are conclusive but insufficient for classification.
STOT - RE	Data are conclusive but insufficient for classification.
Aspiration hazard	Data are conclusive but insufficient for classification.

11.2 Potential health effects

Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled and irritate the respiratory tract.
Skin: May cause irritation.
Eyes: May cause eye irritation.

11.3 Additional information

No additional toxicological information available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Environmental impact has not been fully investigated.
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No information available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Use a licensed professional waste disposal service as appropriate. Follow all applicable local and national requirements.
Contaminated packaging	Dispose of as unused product. Do not reuse empty containers.

Transport & reference

EcoSpin RBCL Buffer | SAFETY DATA SHEET / SECTIONS 14-16

14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Env. hazard
ADR/RID	-	Not regulated as dangerous goods	-	-	No
IMDG	-	Not regulated as dangerous goods	-	-	No
IATA	-	Not regulated as dangerous goods	-	-	No

- = not assigned or not applicable.

Special precautions for user	Follow standard laboratory transport and packaging precautions.
Transport in bulk according to MARPOL / IBC	Not applicable.

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	The EU REACH / CLP framework applies as relevant to the supplied mixture or substance. No additional specific authorisations or restrictions are identified in the supplied regulatory entries.
Environmental hazards	Not applicable.
Chemical safety assessment	No chemical safety assessment is reported for the product.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific target organ toxicity - single exposure
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ADR	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	International transport of dangerous goods by rail