



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date: 02.05.2025

Version number: 1.0

Revision: 02.05.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking:

1.1 Product identifier:

Trade name: Lysis buffer CLA**UFI:** S5SU-VA86-2000-SEW1

1.2 Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

Application of the substance / the preparation: Laboratory chemicals

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:

LGC Genomics GmbH

Ostendstr. 25

12459 Berlin • Germany

Tel. +49 30 1663 54600

Email: techsupport@LGCGroup.com

Further information obtainable from: Business Unit Nucleic Acid Preparation

1.4 Emergency telephone number:

Giftinformationszentrum Mainz / Poison Information Center Mainz, Germany

Tel.: +49-(0)-6131-19240 / 24 h

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS07



GHS09

Signal word: Warning**Hazard statements:**

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

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P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:**Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients:****3.2 Mixtures:****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

| | | |
|--|--|----------|
| CAS: 60-00-4 | edetic acid | ≤2.5% |
| EINECS: 200-449-4 | ⚠ Eye Irrit. 2, H319 | |
| CAS: 57-09-0 | cetrimonium bromide | ≥1-<2.5% |
| EINECS: 200-311-3 | ⚠ STOT RE 2, H373; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335 | |
| Specific concentration limit: Skin Irrit. 2; H315: C ≥ 2.5 % | | |

Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures:****4.1 Description of first aid measures:****General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

After inhalation: Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:**

Rinse out mouth and then drink plenty of water.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: Firefighting measures:**5.1 Extinguishing media:****Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture:** No further relevant information available.**5.3 Advice for firefighters:****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Mouth respiratory protective device.

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SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Wear protective clothing.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Keep receptacles tightly sealed.**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities:****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:** Store away from foodstuffs.**Further information about storage conditions:** None.**Storage class:** 10 - 13**7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection:

8.1 Control parameters:**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls:**Appropriate engineering controls:** No further data; see section 7.**Individual protection measures, such as personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.**Hand protection:** Protective gloves**Material of gloves:**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.35 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection: Tightly sealed goggles

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SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

General Information:

| | |
|---|-----------------|
| Physical state: | Fluid |
| Colour: | Colourless |
| Odour: | Characteristic |
| Odour threshold: | Not determined. |
| Melting point/freezing point: | Undetermined. |
| Boiling point or initial boiling point and boiling range: | ~100 °C |
| Flammability: | Not applicable. |
| Lower and upper explosion limit: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Flash point: | Not applicable. |
| Decomposition temperature: | Not determined. |
| pH at 20 °C: | 8 |
| Viscosity: | |
| Kinematic viscosity: | Not determined. |
| Dynamic: | Not determined. |
| Solubility: | |
| water: | Fully miscible. |
| Partition coefficient n-octanol/water (log value): | Not determined. |
| Vapour pressure at 20 °C: | 23 hPa |
| Density and/or relative density: | |
| Density: | Not determined. |
| Relative density: | Not determined. |
| Vapour density: | Not determined. |

9.2 Other information:

Appearance:

Form: Fluid

Important information on protection of health and environment, and on safety.:

| | |
|-----------------------|---|
| Ignition temperature: | Product is not selfigniting. |
| Explosive properties: | Product does not present an explosion hazard. |
| Change in condition: | |
| Evaporation rate: | Not determined. |

Information with regard to physical hazard classes:

| | |
|--|------|
| Explosives: | Void |
| Flammable gases: | Void |
| Aerosols: | Void |
| Oxidising gases: | Void |
| Gases under pressure: | Void |
| Flammable liquids: | Void |
| Flammable solids: | Void |
| Self-reactive substances and mixtures: | Void |
| Pyrophoric liquids: | Void |
| Pyrophoric solids: | Void |
| Self-heating substances and mixtures: | Void |

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Substances and mixtures, which emit flammable**gases in contact with water:** Void**Oxidising liquids:** Void**Oxidising solids:** Void**Organic peroxides:** Void**Corrosive to metals:** Void**Desensitised explosives:** Void**SECTION 10: Stability and reactivity:****10.1 Reactivity:** No further relevant information available.**10.2 Chemical stability:****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Reacts with acids, alkalis and oxidising agents.**10.4 Conditions to avoid:** No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide**SECTION 11: Toxicological information:****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:****Acute toxicity:** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****Lysis Buffer P/ Lysis Buffer PN**

Oral LD50 155,000 mg/kg (rat)

60-00-4 edetic acid

Oral LD50 2,580 mg/kg (rat)

57-09-0 cetrimonium bromide

Oral LD50 1,550 mg/kg (rat)

Dermal LD50 2,150 mg/kg (rabbit)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.**Serious eye damage/irritation:**

Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.**Carcinogenicity:** Based on available data, the classification criteria are not met.**Reproductive toxicity:** Based on available data, the classification criteria are not met.**STOT-single exposure:** Based on available data, the classification criteria are not met.**STOT-repeated exposure:** Based on available data, the classification criteria are not met.**Aspiration hazard:** Based on available data, the classification criteria are not met.**11.2 Information on other hazards:****Endocrine disrupting properties:**

None of the ingredients is listed.

SECTION 12: Ecological information:**12.1 Toxicity:****Aquatic toxicity:****57-09-0 cetrimonium bromide**

LC50 0.2 mg/l /96 h (fish)

12.2 Persistence and degradability: No further relevant information available.

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12.3 Bioaccumulative potential: No further relevant information available.**12.4 Mobility in soil:** No further relevant information available.**12.5 Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties:**

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:**Additional ecological information:****General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

SECTION 13: Disposal considerations:

13.1 Waste treatment methods:**European waste catalogue:**

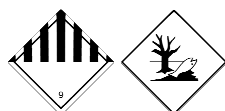
Dispose of contents/container in accordance with local/regional/national/international regulations.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information:

14.1 UN number or ID number:**ADR, IMDG, IATA**

UN3082

14.2 UN proper shipping name:**ADR**3082 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (cetrimonium bromide)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (cetrimonium bromide), MARINE
POLLUTANT**IMDG****IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (cetrimonium bromide)**14.3 Transport hazard class(es):****ADR, IMDG, IATA****Class:**

9 Miscellaneous dangerous substances and articles.

Label:

9

14.4 Packing group:**ADR, IMDG, IATA**

III

14.5 Environmental hazards:**Marine pollutant:**

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

14.6 Special precautions for user:Warning: Miscellaneous dangerous substances and
articles.**Hazard identification number (Kemler code):**

90

EMS Number:

F-A,S-F

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Stowage Category: A
14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

Transport/Additional information:**ADR**

Limited quantities (LQ): 5L
Transport category: 3
Tunnel restriction code: (-)
UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CETRIMONIUM BROMIDE), 9, III

SECTION 15: Regulatory information:**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****Directive 2012/18/EU:**

Named dangerous substances - ANNEX I: None of the ingredients is listed.

Seveso category: E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements: 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements: 200 t

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II:

None of the ingredients is listed.

REGULATION (EU) 2019/1148:

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS:

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors:

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

Relevant phrases:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

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Classification according to Regulation (EC) No 1272/2008:

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS:

ADEEGO GmbH
Wildsteig 4A
D-42113 Wuppertal
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Fax. +49 (0) 202 2575701
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Contact: Dr. Axel Deeg**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
