



1. Identification of the product and the establishment

Product name: Nucleic Acids (gDNA, RNA and cDNA) from various human and animal cell cultures at Biosafety Level 1 or 2 supplied by the CLS Cell Lines Service GmbH. The relevant nucleic acid and cell line data can be found on www.clsgmbh.de

CLS Catalog Number: various

Company information: CLS Cell Lines Service GmbH

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2. Hazards identification

Categorized as non-infectious and non-toxic

Biological Hazards:

Nucleic acids derived from human or animal cell cultures supplied by the CLS are not known to contain any agents capable of harm to healthy adult humans.

Health Effects:

Eyes: N/A
Skin: N/A
Ingestion: N/A
Inhalation: N/A

Chemical Hazards:

Nucleic Acid may be dissolved in aqueous, inorganic buffer containing Tris-HCL and EDTA (TE buffer) TE in high concentrations is an irritant.

Physical Hazards:

Wear protective equipment when handling arriving packages and when working with the nucleic acids.

3. Composition / Information on Ingredients

Nucleic acid from various animal and human cell cultures at Biosafety level 1 or 2
Frozen or growing cells are shipped in a plastic tube.

Unit: clear fluid in a plastic tube.
Solid when frozen, liquid when thawed

Nucleic acids dissolved in water or TE buffer. cDNA supplied in buffer containing residual dNTP'S, deactivated reverse transcriptase and reverse transcriptase buffer.

4. First Aid Measures

In all means, report to your Safety Officer and seek Medical Advice immediately

Skin contact:
Wash off immediately with plenty of water and soap. Remove all contaminated clothing
Eye contact:
Flush eyes immediately with water for 10-15 minutes.
Ingestion:



If the material was swallowed, rinse the mouth with water. If the person is unconscious seek emergency medical attention. Avoid vomiting unless directed by a medical doctor.

Inhalation: If the person is unconscious seek emergency medical attention. Remove person to fresh air

5. Fire Fighting Measures

General: During a fire, irritating and toxic gases may be generated by thermal decomposition.

Unsuitable Extinguisher medium: N/A

Autoignition Temperature: N/A

Explosion limits: N/A

Extinguisher medium: Use medium suitable for surrounding environment

Protective equipment for firefighting: N/A

6. Accidental Release Measures

Use personal protective equipment when working with nucleic acids, including safety glasses, laboratory gloves and appropriate laboratory clothing to prevent skin exposure. Do not open primary containers if not authorized.

Do not flush into surface water.

Clean contaminated surface thoroughly. Autoclave before disposal into appropriated containers.

If spilled, follow appropriate cleaning procedure. Use absorbent material and disinfect. Wash contaminated clothing separately. Wash with soap and water Additional personal protective equipment for cleaning may be mandatory.

7. Handling and storage

Handling and store according to instructions on product information sheet.

Follow established laboratory procedures when handling.

Open only under a sterile workbench. Wear protective equipment. Handle as if containing infectious material.

Storage:

Keep at - 20°C for long term storage or at 2-8°C for short term storage.

8. Exposure Controls / Personal Protection

Hygienic measures:

Avoid the contact with skin, eyes and clothing. Keep away from food and drinks. Wash hands immediately after handling the product.

Normally, no respiratory protective equipment is required. Use fume hood to keep airborne concentrations low. No exposure limits are known.

Use protective gloves and safety glasses and wear a lab coat while handling the product. European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Handle as for Hazard Group 2.

9. Physical and Chemical Properties

Frozen or Liquid, no information available for nucleic acids. See above

Caution: Substance not yet fully tested (EU)

Danger symbol: Not applicable

Contains: Not applicable



R-phrases: R:22, R:36/37/38

Observe the normal safety regulations when handling this material.

10. Stability and Reactivity

Chemical Stability: Stable

Reactivity data: Stable

Conditions to Avoid: N/A

Hazardous Decomposition Products: N/A

Hazardous Polymerization: will not occur

11. Toxicological Information

Not hazardous according to Directive 1272/2008 (CLP)

No toxic or exposure data available for nucleic acids from cell lines. However general protection procedures occur. Wear appropriate protection equipment. Kindly note the toxicological properties have not been fully reported.

12. Ecological Information

No ecological information available.

13. Disposal Considerations

Follow established procedures for Containment (Biosafety) Level 1 and 2. Hazardous waste generators are required. Please check if discarded chemical is classified as a hazardous waste. Follow all national, regional and local regulations.

14. Transport Information

Non-hazardous non-toxic for air, sea and road freight. Not classified as dangerous goods and are not subject to IATA or the European Agreement concerning international Carriage of Dangerous Goods.

If substance falls under Biological Substance Category B UN3373 it will be declared specially and packed in compliance with IATA packing instruction 650.

If substance falls under Genetically Modified Organisms (GMOs) UN3245 it will be declared specially and packed in compliance with IATA packing instruction 959.

Additional information may occur for Carriage of Dangerous Goods by Road and Air, for classification, packaging and labeling. Nucleic acids are either shipped on blue ice (cooling pack) or on dry ice. The package will indicate all required information.

Regulation:

In case of dry ice:

UN no. 1845 label and G9– dry ice

Packaging group 3

15. Regulatory Information

Revised Date: Feb. 2018



All necessary licenses for import, holding, transfer and export are in place from CLS. Recipient must only provide evidence of permits and licenses required by law for receiving and handling. Substances are for research use only.

16. Other Information

Recommended use:

For in vitro research use only.

Disclaimer:

In the event of an accident involving exposure of a person to the material contained in the samples, contact CLS during normal working hours. Refer to section 1 for full contact details.

The information provided in the present Material Safety Data Sheet is believed to be correct at the date of publication based upon data available to CLS. No guarantee is given for its accuracy or completeness, but is intended as guidance only. Users should make independent decision and assessments regarding the completeness based on their needs and data available to them. Biological material may be hazardous and should be used with caution.

CLS Cell Lines Service GmbH shall not be held liable for any damage resulting from handling or from contact with the product.

The MSDS was written in accordance with the European Union Council Directive 98/24/EC (April 07, 1998) for the protection of the health and safety of workers from risks related to chemical agents, fourteenth individual directive within the meaning of Article 16(1) of the Directive 89/391/EEC. Commission Directive 2001/58/EC (July 27, 2001) amending for the second time Directive 91/155/EEC defining and laying down the detailed arrangements for the system of information relating to dangerous preparations in implementation of Article 14 of the European Parliament Directive 1999/45/EC and relating to dangerous substances in implementation of Article 27 of Council Directive 67/548/EEC.