Safety Data Sheet

According to Regulation (EC) No 1907/2006

Version	2.0 / EN
Revision date	2024-12-12
Valid after	2024-12-12

1. Identification of the Substance/Mixture and of the Company

1.1 Product Identifier

Trade name:	*abberior* LIVE 460L, DNA (article number: LV460L-0143-50UG)
REACH No:	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses and uses advised against

Fluorescent dye for physical/chemical research purposes, spectroscopy, and optical microscopy in biological and biomedical applications.

This product is sold for research and development purposes only and *must not* be used for any human or animal therapeutic, clinical diagnostic or other medical purpose. It is not intended for food, drug, household, agricultural, or cosmetic use.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer / Distributor

Abberior GmbH

Street / PO Box

Hans-Adolf-Krebs-Weg 6

Country Code / Postal Code / City

DE – 37077 Göttingen, Germany

Contact for Technical Inquiries

info@abberior.com

Phone / Fax

+49 551 9995 4011 / +49 551 9995 4098

1.4 Emergency Telephone Numbers

Emergency Phone #:	**0800 181 7059** (CHEMTREC Germany) **+49 (0)696 43508409** (CHEMTREC worldwide)

2. Hazards Identification

2.1 Classification of the Substance or Mixture

Acute toxicity, Oral (Category 4), H302
Serious eye damage (Category 2), H318
Long-term (chronic) aquatic hazard (Category 2), H412

2.2 Labelling Elements according Regulation (EC) No 1272/2008

Hazard Statements (H-phrases)

Pictogram	
Signal Word	Danger
Hazard statement(s)	
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (P-phrases)

Prevention:

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.

Response:

P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/ container to an approved waste disposal plant.

Storage:

P402	Store in a dry place.
P404	Store in a closed container.
P411 + P235	Store at temperatures not exceeding – 15°C.

2.3 Other Hazards

This substance / mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1 % or higher.

3. Composition/Information on Ingredients

3.1 Substances

abberior LIVE 460L, DNA

Molecular weight:	1371.3 g/mol
Classification:	Acute toxicity, Oral (Category 4), H302
	Serious eye damage (Category 2), H318
	Long-term (chronic) aquatic hazard (Category 2), H412
Concentration:	< = 100%

4. First Aid Measures

4.1 Description of First Aid Measures

General information: Consult a doctor. Show this safety data sheet to the attending physician.

Following Inhalation

Fresh air.

Following Skin Contact

Take off immediately all contaminated clothing. Rinse skin with water/shower.

Following Eye Contact

Remove contact lenses. Immediately rinse with plenty of water, also under the eyelid. Proceed for at least 15 minutes. Consult an ophthalmologist.

Following Ingestion

Immediately wash your mouth with plenty of water. Consult a doctor.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No data available.

5. Fire-Fighting Measures

5.1 Extinguishing Media

suitable: Water spray, alcohol resistant foam, dry chemical or carbon dioxide

unsuitable: full water jet

5.2 Special Hazards Arising from the Substance or Mixture

Combustible

Development of hazardous combustion gases or vapors possible in the event of fire.

5.3 Advice for Fire-Fighters

Wear self-contained breathing apparatus. Coll endangered containers with water spray from a safe distance. Defeat evolving vapors with water. Keep quench water away from drains, surface, and ground water and soil. Wear protective suit to avoid skin contact; stay in safe distance.

5.4 Further Information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental Precautions

Do not let product enter drains.

6.3 Methods and Material for Containment and Cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

6.4 Reference to Other Sections

Personal protective equipment: see section 8

Disposal: see section 13

7. Handling and Storage

7.1 Precautions for Safe Handling

Information about safe handling

For precautions see section 2.2.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling product.

For precautions see section 2.2.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage conditions

Tightly closed. Store the product away from moisture.

The product must not be stored together with pharmaceuticals, foods and feedstuff.

Storage Stability

Store at temperatures not exceeding – 15°C.

Storage Class

Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific End Use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure Controls / Personal Protection

8.1 Control Parameters

Ingredients with workplace control parameters.

8.2 Exposure Controls

Personal protective equipment

Respiratory Protection

Not required except in case of aerosol formation.

Skin Protection

The suitable protective gloves must meet the specification of the EC Directive 2016/425 and the standard derived from it according to EN 374.

Gloves must be inspected for damage before use. Use an appropriate removal method to avoid skin contact. Disposal of the contaminated gloves after use within the framework of legal regulations. Washing and drying the hands after work.

Eye / Face Protection

Wear face shield and/or safety goggles. Use only equipment that has been tested and approved to government standard. Need product only with standard NIOSH (US) or EN 166 (EU).

Environmental Exposure Controls

Prevent further leakage or spillage, if safe to do so. Do not empty into drains.

9. Physical and Chemical Properties

9.1 Basic Physical and Chemical Properties

Physical state:	powder
Solubility:	DMF, DMSO, Alcohols, Acetonitrile

9.2 Other Properties

No other properties available.

10. Stability and Reactivity

10.1 Reactivity

No reactivity with significant heat production known.

10.2 Chemical Stability

The product is chemically stable under ambient conditions (room temperature).

10.3 Possibility of Hazardous Reactions

Violent reactions possible with: Strong oxidizing agents.

10.4 Conditions to Avoid

No information available.

10.5 Incompatible Materials

strong oxidizer; strong acid.

10.6 Hazardous Decomposition Products

In case of fire: see section 5

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity

No data available.

Skin Corrosion/Irritation

No data available

Serious Eye Damage/Irritation

No data available

Respiratory or Skin Sensitisation

No data available

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity – single exposure

No data available

Specific Target Organ Toxicity – repeated exposure

No data available.

Aspiration Hazard

No data available

12. Ecological Information

12.1 Toxicity

No data available.

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulative Potential

No data available

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB Assessment

This substance / mixture contains no components considered to be either persistent, bioaccumulate and toxic (PBT), or very persistent and very bioaccumulate (vPvB) at levels of 0,1 % or higher.

12.6 Other Adverse Effects

Not tested. No adverse are known when handled and disposed properly. Do not allow product to reach sewage system.

13. Disposal Considerations

13.1 Waste Treatment Methods

Dispose of residues and non-recyclable solutions in accordance with the Waste Directive 2008/98/EC, as well as national and regional regulations. The product should be dissolved in or mixed with a flammable solvent and burned in a chemical incinerator.

Keep only in original containers. Do not mix with other waste. Uncleaned containers or contaminated materials should be treated appropriately for the product.

14. Transport Information

14.1 UN Number

ADR/RID: - IMDG: - IATA: -

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods IATA:
Not dangerous goods

14.3 Transport Hazard Class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging Group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental Hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special Precautions for User

See section 6 – 8

Further information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Not classified. To the best of our knowledge safety, health and environmental regulations according to VO (EC) 1907/2006 are not applicable.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. Other Information

This product is intended for use only by persons with proper skills and at their own risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. The recommendations given in this data sheet are based on prudent application of professional judgment. The information is given as a guide but shall not be taken as complete. As this product may pose unknown hazards it should be used with caution. Since Abberior GmbH cannot control the conditions of use of the product, it shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SAFETY DATA SHEET DOES

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