

Trade name: Abberior LIVE 610, cabazitaxel conjugate
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1. Identification of the Substance/Mixture and of the Company

The current safety data sheet applies for conjugates of the dye series Abberior LIVE of the Abberior GmbH.

1.1 Product Identifier

Trade name: Abberior LIVE 610 Tubulin, conjugate with cabazitaxel

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.

Herein mentioned conjugates are probes which can be used for labeling tubulin filaments inside living cells. They consists of a rhodamine dye and a cabazitaxel ligand termed which will bind on β -tubulin.

1.3 Details of the Supplier of the Safety Data

Sheet Manufacturer / Distributor

Abberior GmbH

Street/PO Box

Hans-Adolf-Krebs-Weg 1

Country Code/Postal Code/City

DE – 37077 Göttingen, Germany

Contact for Technical Inquiries

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1.4 Emergency Telephone Numbers

ITALY: +39 06 305 4343
(Centro Antiveleni, Roma, www.tox.it)

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FINLAND:	+358 9 471 977 (24h / 7 days) www.hus.fi/sairaanhoito/sairaanhoitopalvelut/myrkytystietokeskus/Sivut/default.aspx
FRANCE:	+33 1 40 05 48 48 (24h / 7 days) (Centres antipoison et de toxicovigilance, Paris, www.centres-antipoison.net)
GERMANY:	+49 551 19240 (24h / 7 days) (Giftinformationszentrum-Nord, Göttingen, www.giz-nord.de)
ISRAEL:	+972 4 854 1900 (Israel Poisons Information Centre, Haifa)
RUSSIA:	+7 495 628 16 87 (24h / 7 days) (Research and Applied Toxicology Centre (RATC) of Federal Medical Biological Agency, Moscow, www.rtiac.org)
SPAIN:	+34 91 562 04 20 (Servicio de Información Toxicológica, Instituto Nacional de Toxicología, Madrid)
SWEDEN:	112 , international: +46 8 33 12 31 (24h / 7 days) (Giftinformationscentralen, Stockholm, www.giftinformation.se)
SWITZERLAND:	145 , international: +41 44 251 51 51 (24h / 7 days) (Swiss Toxicological Information Centre, www.toxi.ch)
UNITED KINGDOM:	111 (24h / 7 days) (National Poisons Information Service, http://www.npis.org/)
UNITED STATES Of AMERICA:	+1 800 222 1222 (24h / 7 days) (National Capital Poison Center, www.poison.org)

See www.who.int/ipcs/poisons/centre/directory/en for a worldwide directory of poison control centres.

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2. Hazards Identification

2.1 Classification of the Substance or Mixture Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315 Germ cell mutagenicity (Category 2), H341

Reproductive toxicity (Category 2), H361fd

Specific target organ toxicity - repeated exposure (Category 2), H373

2.2 Labelling According to Regulation (EC) No 1272/2008 [CLP/GHS]

Pictogram: 

Signal word: Warning

Hazard Statements (H-phrases)

H302	Causes skin irritation
H315	Causes skin irritation.
H341	Suspected of causing genetic defects.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements (P-phrases)

Prevention:

P201	Obtain special instructions before use.
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P501	Dispose of contents/ container to an approved waste disposal plant.

Reponse:

P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

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Storage:

P402 Store in a dry place.
P404 Store in a closed container.
P411 + P235 Store at temperatures not exceeding –20 °C.

Additional Labelling

Substance not fully tested.

2.3 Other Hazards

No further hazards are known.

3. Composition/Information on Ingredients

3.1 Substances

Cabazitaxel conjugate (ligand for labeling tubulin structures inside living cells) with Abberior LIVE 610 (water soluble rhodamine dye), solid.

Impurities and Stabilizers

None.

3.2 Mixtures

The product is a pure substance, not a mixture.

4. First Aid Measures

4.1 Description of First Aid Measures

General advice:

Consult physician. Show this safety data sheet to the doctor in charge.

Following Inhalation

Move to fresh air. Seek medical advice.

Following Skin Contact

Rinse skin with plenty of water. Move person to a hospital and consult a medical doctor.

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.

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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

If unconscious call an emergency. Consult a poison control center (see Section 1.4) before administering an antidote.

5. Fire-Fighting Measures

5.1 Extinguishing Media

Suitable: extinguishing foam, carbon dioxide, dry extinguishing powder, water spray water.

Unsuitable: full water jet.

5.2 Special Hazards Arising from the Substance or Mixture

No information available.

5.3 Advice for Fire-Fighters

Wear self-contained breathing apparatus.

Keep quench water away from drains, surface, and ground water and soil.

Wear protective suit to avoid skin contact; stay in safe distance.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental Precautions

Dissolved material should not enter drains.

6.3 Methods and Material for Containment and Cleaning up

Collect escaped material mechanically. Soak up dissolved product with inert absorbent material.

Collect material in dedicated, properly labeled containers. Dispose in accordance with federal, state and local regulations. Do not dispose dissolved material into drains.

6.4 Reference to Other Sections

Follow protective measures given in Sections 7 and 8.

7. Handling and Storage

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7.1 Precautions for Safe Handling

Follow good hygiene and safety practices:

- No eating, drinking and smoking in working areas.
- Wash hands after use.
- Take off contaminated clothing and protective equipment before entering eating areas.
- Avoid the formation of dust and aerosol

7.2 Conditions for Safe Storage, Including any Incompatibilities

Technical Measures and Storage Conditions

Store the product at -20°C . Keep dry and in the dark. Keep container tightly closed in a cool and dry place.

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

7.3 Specific End Uses

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

8. Exposure Controls / Personal Protection

8.1 Control Parameters

No information available.

Exposure Values

No information available.

8.2 Exposure Controls

Appropriate Engineering Controls

Work in a fume cupboard or use a source extraction.

Personal Protection Equipment

Wear gloves / protective clothing / eye protection / face protection.

Respiratory protection

No breathing apparatus necessary when working properly in a fume cupboard.

Skin Protection

Wear protective gloves according to EN 374.

Material: nitrile rubber

Minimum layer thickness: 0.11 mm

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Eye Protection

Wear safety goggles according to EN 166:2001.

Environmental Exposure Controls

See Sections 6 and 7.

9. Physical and Chemical Properties

9.1 Basic Physical and Chemical Properties

Appearance: solid
Molecular Weight: 1315.6 g/mol
Solubility: Methanol, DMF, DMSO, ACN
Explosive Properties: The product is not explosive.

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 for a short period of time chemically stable under ambient conditions (room temperature).

10.3 Possibility of Hazardous Reactions

No hazardous reactions known when used properly.

10.4 Conditions to Avoid

No information available.

10.5 Incompatible Materials

strong oxidizer; strong acid

10.6 Hazardous Decomposition Products

No hazardous decomposition products known.

11. Toxicological Information

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11.1 Information on Toxicological Effects

Acute Toxicity

LD50 Oral - Rat - 500 mg/kg

Remarks: (External MSDS).

Skin Corrosion/Irritation

Not tested.

Serious Eye Damage/Irritation

Not tested.

Respiratory or Skin Sensitisation

Not tested.

Toxicity on Repeated Exposure

May cause damage to organs through prolonged or repeated exposure

Remarks: (External MSDS).

Germ cell mutagenicity

Suspected of causing genetic defects

Remarks: (External MSDS).

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Remarks: (External MSDS).

Toxicity for Reproduction

Suspected of damaging the unborn child. Suspected of damaging fertility.

Remarks: (External MSDS).

12. Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and Degradability

Not tested.

12.3 Bioaccumulative Potential

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Not tested.

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12.4 Mobility in Soil

Not tested.

12.5 Results of PBT and vPvB Assessment

Not tested.

12.6 Other Adverse Effects

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

12.7 Additional Information

Not tested.

13. Disposal Considerations

13.1 Waste Treatment Methods

Dispose in accordance with federal, state and local regulations.

14. Transport Information

14.1 UN Number

Not determined.

14.2 Proper Shipping Name

Not determined.

14.3 Hazard Class

Not determined.

14.4 Packaging Group

Not classified.

14.5 Environmental Hazards

Not classified.

14.6 Special Precautions for User

See Sections 6 – 8.

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not classified.

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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

No safety assessment has been conducted.

16. Other Information

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H341 Suspected of causing genetic defects.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

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

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 NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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EU Regulations

Regulation (EC) No. 1907/2006 (REACH), revised by Regulation (EU) No. 253/2011.
Regulation (EC) No. 1272/2008, revised by Regulation (EC) No. 790/2009.

U.S. Federal Regulations

SARA 313

Not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

Does not contain HAPs.

German Regulations

Zubereitungsrichtlinie (1999/45/EG), revised by Regulation (EG) No. 1907/2006.
Stoffrichtlinie (67/548/EWG), revised by Regulation 2009/2/EG.

Abbreviations & Acronyms

CAS	Chemical Abstracts Service
DMF	<i>N,N'</i> -Dimethylformamide
DMSO	Dimethylsulfoxide
NHS	<i>N</i> -Hydroxysuccinimide

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