We encourage and expect you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFCATION OF THE SUBSTANCE

1.1 Product identifier

Product name	Catalog number
NeuroFluidics NeoBento Dualink LIGHT (Acro Certified)	NFDL-1
NeuroFluidics NeoBento Dualink SHIFT FULL (Acro Certified)	NFDLS-2
NeuroFluidics NeoBento Dualink FULL (Acro Certified)	NFDL-2
NeuroFluidics NeoBento Dualink SHIFT LIGHT (Acro Certified)	NFDLS-1
Neobento Multifluidics DUPLEX LIGHT (Acro Certified)	MFDW-1
Neobento Multifluidics DUPLEX FULL (Acro Certified)	MFDW-2
NeuroFluidics NeoBento Dualink MEA PRO (Acro Certified)	NFDLMEA-4
NeuroFluidics NeoBento Trialink MEA EDGE (Acro Certified)	NFTLMEA-3
NeuroFluidics NeoBento Trialink FULL (Acro Certified)	NFTL-2
NeuroFluidics NeoBento Trialink LIGHT (Acro Certified)	NFTL-1
NeuroFluidics NeoBento Trialink MEA PRO (Acro Certified)	NFTLMEA-4
NeuroFluidics NeoBento DuaLink SHIFT MEA EDGE (Acro Certified)	NFDLSMEA-3
NeuroFluidics NeoBento DuaLink MEA EDGE (Acro Certified)	NFDLMEA-3

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

No further relevant information is available.

1.3 Details of company/undertaking

ACROBiosystems, Inc

Newark, DE 19711 United States

+1 800-810-0816 (US/Canada)

+86 400-682-2521 (Asia & Pacific)

techsupport@acrobiosystems.com

www.acrobiosystems.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

✓ **Precautionary statements**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P234: Keep only in original packaging.

P403: Store in a well-ventilated place.

2.3 Other hazards

May generate flammable hydrogen gas. Avoid contact with water, alcohol, acidic, basic, or oxidizing materials.

This product contains no substances assessed to be PBT or vPvB at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

This product does not contain, in concentrations equal to or greater than those laid down by the Regulation (EC) No. 2015/830, any substances presenting a health or environmental hazard nor any substances for which there are Community workplace exposure limits in place.

4. FIRST AID MEASURES

4.1 Description of first aid measures

- ✓ General information: no special measures required.
- ✓ 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: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
- ✓ After swallowing: Consult a doctor, if necessary.
- ✓ Information for doctor:
  - ✧ Most important symptoms and effects, both acute and delayed

    No further relevant information is available.
  - ✧ Indication of any immediate medical attention and special treatment needed

    No further relevant information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water spray. Alcohol-resistant foam. Carbon dioxide (CO2).

5.2 Special hazards arising from the substance or mixture

Silicon oxides – Formaldehyde – Carbon oxides.

5.3 Advice for firefighters

- ✓ **Fire Fighting Procedures**: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations. Do not allow extinguishing medium to contact container contents. Most fire extinguishing media will cause hydrogen evolution, and once the fire is put out, may accumulate in poorly ventilated or confined areas and result in flash fire or explosion if ignited. Remove undamaged containers from the fire area if it is safe to do so. Evacuate area.

- ✓ **Special protective equipment for firefighters**: Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Remove all sources of ignition. Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. Dispose of saturated

absorbent or cleaning materials appropriately since spontaneous heating may occur. Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over pressurization of the container.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid all contact with reagents, even those considered to be non-hazardous. Take care to prevent spills, waste and minimize release to the environment. Follow good laboratory practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage in a dry place, protected from light.

7.3 Specific end use(s)

No further relevant information is available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Although some of the components of this product may have exposure guidelines, no exposure would be expected under normal handling conditions due to the physical state of the material.

8.2 Exposure controls

✓ **Engineering controls:**

Use local exhaust ventilation, or other engineering controls to maintain airborne levels

below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

✓ **Individual protection measures:**

- ✧ **Eye/face protection:** Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.
- ✧ **Skin protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms.

✓ **Respiratory protection:**

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

✓ **Environmental exposure controls**

See Section 7: Handling and storage and Section13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Solid
Color	Colorless
Odor	Slight

Odor Threshold	No data available
pH	No data available
Melting point/range	No data available
Freezing point	No data available
Boiling point (760 mmHg)	> 100°C
Flash point	closed cup > 101,1°C
Evaporation Rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	Not applicable
Flammability (liquids)	Ignitable (see flash point)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor Pressure	No data available
Relative Vapor Density (air = 1)	No data available
Relative Density (water = 1)	1.03
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Kinematic Viscosity	110 cSt at 25°C
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other information

Molecular weight	No data available
Particle size	Not applicable

NOTE: The physical data presented above are typical values and should not be construed as a

specification.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Can react with strong oxidizing agents. When heated to temperatures above 180°C (356°F) in the presence of air, trace quantities of formaldehyde may be released. Adequate ventilation is required. Product may evolve flammable hydrogen gas on contact with water, alcohols, acidic or basic materials, many metals or metallic compounds and can form explosive mixtures in air. Hazardous decomposition products will be formed at elevated temperatures.

10.4 Conditions to avoid

Exposure to moisture

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Decomposition products can include and are not limited to: Formaldehyde.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure

Inhalation, Eye contact, Skin contact, Ingestion.

✓ **Acute toxicity (represents short term exposures with immediate effects - no**

chronic/delayed effects known unless otherwise noted)

- ✧ **Acute oral toxicity**

  Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. As product: Single dose oral LD50 has not been determined.

  Based on information for component(s): LD50, > 5 000 mg/kg Estimated.

- ✧ **Acute dermal toxicity**

  Prolonged skin contact is unlikely to result in absorption of harmful amounts. As product: The dermal LD50 has not been determined.

  Based on information for component(s): LD50, > 2 000 mg/kg Estimated.

- ✧ **Acute inhalation toxicity**

  No adverse effects are anticipated from single exposure to vapor. Excessive exposure may cause irritation to the upper respiratory tract (nose and throat).

  As product: The LC50 has not been determined.

✓ **Skin corrosion/irritation**

Based on information for component(s): Brief contact is essentially nonirritating to skin.

✓ **Serious eye damage/eye irritation**

Based on information for component(s): May cause slight temporary eye irritation.

✓ **Sensitization**

Contains component(s) which did not cause allergic skin sensitization in guinea pigs.

For respiratory sensitization: No relevant data found.

✓ **Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

✓ **Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

✓ **Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)**

✓ **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

No relevant data found.

✓ **Carcinogenicity**

No relevant data found.

✓ **Teratogenicity**

No relevant data found.

✓ **Reproductive toxicity**

No relevant data found.

✓ **Mutagenicity**

Contains a component(s) which were negative in in vitro genetic toxicity studies.

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not dump into any sewers, on the ground, or into any body of water. This product, when disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be following all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

14. TRANSPORT INFORMATION

14.1 Classification for ROAD and Rail transport (ADR/RID)

- ✓ **UN Number**

  Not applicable.

- ✓ **UN proper shipping name**

  Not regulated for transport.

- ✓ **Transport hazard class(es)**

  Not applicable.

- ✓ **Packing group**

  Not applicable.

- ✓ **Environmental hazards**

  Not considered environmentally hazardous based on available data.

- ✓ **Special precautions for user**

  No data available.

14.2 Classification for SEA transport (IMO-IMDG)

✓ **UN number**

Not applicable.

✓ **UN proper shipping name**

Not regulated for transport.

✓ **Transport hazard class(es)**

Not applicable.

✓ **Packing group**

Not applicable.

✓ **Environmental hazards**

Not considered as marine pollutant based on available data.

✓ **Special precautions for user**

No data available.

✓ **Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code**

Consult IMO regulations before transporting ocean bulk.

14.3 Classification for AIR transport (IATA/ICAO)

✓ **UN number**

Not applicable.

✓ **UN proper shipping name**

Not regulated for transport.

✓ **Transport hazard class(es)**

Not applicable.

✓ **Packing group**

Not applicable.

✓ **Environmental hazards**

Not applicable.

✓ **Special precautions for user**

No data available.

14.4 Further information:

VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transport organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

✓ **REACh Regulation (EC) No 1907/2006**

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., The forementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer´s/user´s responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

✓ **Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.**

Listed in Regulation: Not applicable.

- ✓ **Installations classified for the protection of the environment (Environment Code R511-9)**

  Not determined.

- ✓ **Further information**

  Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

16. OTHER INFORMATION

- ✓ **Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008**

  This product is not classified as dangerous according to EC criteria.

- ✓ **Revision**

  Identification Number: DR_2A_008 / Issue Date: 2024-02-26 / Version: 2.0

  Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

- ✓ **Full text of other abbreviations**

  ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

  ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

  EC-Number - European Community number

  IATA - International Air Transport Association

  IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IMO - International Maritime Organization

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SADT - Self-Accelerating Decomposition Temperature

SDS - Safety Data Sheet

PvB - Very Persistent and Very Bioaccumulative

✓ **Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

We urge each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

Disclaimer

To the best of our knowledge, the information contained herein is accurate. Neither ACROBiosystems nor any of its subsidiaries shall be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. Final determination of suitability of any material is the sole responsibility of the user. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

End of Safety Data Sheet