

1 Identification

- **Product Identifier**
- **Trade Name: LightDeck MC/CYN HAB Toxin Cartridge**
- **Relevant identified uses of the substance or mixture and uses advised against:** Detection of toxins generated by freshwater harmful algal blooms with no identified restrictions on use.
- **Product Description:** Detection of toxins generated by freshwater harmful algal blooms.
- **Application of the substance/mixture:** Not applicable
- **Details of the Supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
LightDeck Diagnostics
5603 Arapahoe Ave, Suite 1
Boulder, CO 80303
P: 303-952-2905, info@lightdeckdx.com
- **Emergency telephone number:** 303-952-2810

2 Hazard(s) Identification

- **Classification of the substance or mixture:**
The product does not meet classification according to OSHA HCS 29 CFR §1910.1200 and GHS Rev. 3. This product is an article under 29 CFR §1910.1200(c).
- **Label elements**
- **GHS label elements:** None
- **Hazard pictograms:** None
- **Signal word:** None
- **Hazard statements:** None
- **Unknown acute toxicity:**
This value refers to knowledge of known, established toxicological or ecotoxicological values.
0% of the mixture consists of component(s) of unknown toxicity
- **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances with non-hazardous additions.
- **Additional information:**
The exact percentages of the ingredients of this mixture are considered proprietary and are withheld in accordance with paragraph (i) of 29 CFR §1910.1200 Trade Secrets.

4 First-Aid Measures

- **Description of first aid measures**
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Wash with soap and water.
If skin irritation occurs, consult a doctor.
- **After eye contact:**
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
If easy to do so, remove contact lenses if worn.
- **After swallowing:**
If vomiting does occur, repeat fluid administration.
Call a doctor if irritation or symptoms develop.
Do not induce vomiting without medical advice.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use firefighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation.
- **Environmental precautions:** No special measures required.
- **Methods and materials for containment and cleaning up:**
Ensure adequate ventilation
Dispose of the collected material according to the relevant disposal regulations.
- **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.

7 Handling and Storage

- **Handling**

- **Precautions for safe handling:**
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:**
 No further data; see Section 7.
 Hazards are determined based on the containment in plastic.
- **Control parameters**
- **Components with occupational exposure limits:**
 The product does not contain any materials with occupational exposure limit (OEL) values or biological limit values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures:**
 The usual precautionary measures for handling chemicals should be followed.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing and wash before reuse.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes.
 Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Penetration time of glove material:**
 The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.
- **Eye protection:** Not required.

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance**

Form:	Solid
Color:	White
Odor:	Odorless
Odor threshold:	Not determined.
pH-value:	Not applicable.
- **Change in condition**

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	≥100 °C (≥212 °F)
Freezing point:	Not applicable
Flash point:	None
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
- **Explosion limits**

Lower:	Not determined.
Upper:	Not determined.
- **Vapor pressure @ 20 °C (68 °F):** <1.3 hPa (<1 mm Hg)
- **Density**

Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
- **Solubility in / Miscibility with**

Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
- **Viscosity**

Dynamic:	Not determined.
Kinematic:	Not determined.
- **Solvent content**

VOC content:	0.00 %
Solids content:	1.0 %
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:**
 No further relevant information available.

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The product is stable under normal conditions
 No further relevant information is available.

- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Incompatibilities, flames, ignition sources.
- **Incompatible materials:**
 Strong oxidizing agents
 Strong acids, strong bases
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information
Information on toxicological effects
Acute toxicity:

LD/LC50 values that are relevant for classification:

Proprietary		
Oral	LD50	17,000 mg/kg (Rat)

Primary irritant effect

On the skin: No irritating effect.

On the eye: Irritating effect.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:
 Irritant

Delayed and immediate effects and chronic effects on short-term and long-term exposure: None

Carcinogenic categories:

IARC (International Agency for Research on Cancer):
None of the ingredients are listed.

NTP (National Toxicology Program):
None of the ingredients are listed.

OSHA (Occupational Safety & Health Administration):
None of the ingredients are listed.

12 Ecological Information
Toxicity

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information**
- **General notes:** Generally, not hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:** Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

- **UN-Number**
- **DOT, ADR/ADN, ADN, IMDG, IATA:** Not applicable.
- **UN proper shipping name**
- **DOT, ADR/ADN, ADN, IMDG, IATA:** Not applicable.
- **Hazard class(es)**
- **DOT, ADR/ADN, ADN, IMDG, IATA:** Not applicable.
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Not applicable.
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Not applicable.

15 Regulatory Information

- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0-4)**



Health=0
 Fire=0
 Reactivity=0



Health=0
 Fire=0
 Reactivity=0

Safety, health and environmental regulations/legislation specific for the substance or mixture
SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances):	
None of the ingredients are listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients are listed.	
TSCA (Toxic Substances Control Act) Inventory:	
Complies	
California Proposition 65:	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
New Jersey Right-to-Know List	
Proprietary	
New Jersey Special Hazardous Substance List:	
None of the ingredients are listed.	
Pennsylvania Special Hazardous Substance List:	
Proprietary	
Carcinogenic categories:	
EPA (Environmental Protection Agency):	
Trade Secret	I (oral)
TLV (Threshold Limit Value established by ACGIH):	
None of the ingredients are listed.	
NIOSH (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the sustainability of the material or product for any particular purpose.

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Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transportation Association
 ACHIH: American Conference of Governmental Industrial Hygienists
 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)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety and Health
 OSHA: Occupational Safety & Health Administration
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Ox. Sol. 2: Oxidizing solids – Category 2
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox 3: Acute toxicity – category 3
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/irritation – category 1
 Eye Irrit 2A: Serious eye damage/eye irritation – Category 2A
 Repr. 1B: Reproductive toxicity – Category 1B
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Aquatic Acute 3: Hazardous to the aquatic environment – acute aquatic hazard – Category 3
 Aquatic Chronic 3: Hazardous to the aquatic environment – long-term aquatic hazard – Category 3