SAFETY DATA SHEET
Magnis Installation Kit, Part Number K1007-67100

Section 1. Identification

1.1 Product identifier
Product name : Magnis Installation Kit, Part Number K1007-67100
Part no. (chemical kit) : K1007-67100
Part no. : Brilliant Blue FCF, 0.05 mg/ml, 10 mL 5191-5725
LodeStars 2.7 Carboxyl (Prediluted) 2 ml 5191-5726
Validation date : 9/30/2021

1.2 Relevant identified uses of the substance or mixture and uses advised against
The following articles are also contained in this kit: 5191-5722, 5191-5723, 5191-5724,
K1007-20826. (No SDS is necessary.)
Brilliant Blue FCF, 0.05 mg/ml, 10 mL 10 ml
LodeStars 2.7 Carboxyl (Prediluted) 2 ml 2 ml

1.3 Details of the supplier of the safety data sheet
Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number
In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture
OSHA/HCS status : Brilliant Blue FCF, 0.05 mg/ml, 10 mL
LodeStars 2.7 Carboxyl (Prediluted) 2 ml
While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture
Not classified.

2.2 GHS label elements
Signal word : Brilliant Blue FCF, 0.05 mg/ml, 10 mL
LodeStars 2.7 Carboxyl (Prediluted) 2 ml
No signal word.
Section 2. Hazards identification

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Precautionary statements

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Response</th>
<th>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
<th>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disposal</th>
<th>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Supplemental label elements

<table>
<thead>
<tr>
<th>Supplemental label elements</th>
<th>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>None known.</td>
</tr>
</tbody>
</table>

2.3 Other hazards

<table>
<thead>
<tr>
<th>Hazards not otherwise classified</th>
<th>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>None known.</td>
</tr>
</tbody>
</table>

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Brilliant Blue FCF, 0.05 mg/ml, 10 mL Mix</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td></td>
</tr>
</tbody>
</table>

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Brilliant Blue FCF, 0.05 mg/ml, 10 mL Mix</th>
<th>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</td>
</tr>
</tbody>
</table>
## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Condition</th>
<th>Substance</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Over-exposure signs/symptoms</strong></td>
<td><strong>Eye contact</strong></td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<table>
<thead>
<tr>
<th>Condition</th>
<th>Substance</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye contact</strong></td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Skin contact</strong></td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Date of issue:** 09/30/2021
**Section 4. First aid measures**

| Ingestion | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{No specific data.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{No specific data.}
\end{align*}
\] |
| Protection of first-aiders | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{No action shall be taken involving any personal risk or without suitable training.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{No action shall be taken involving any personal risk or without suitable training.}
\end{align*}
\] |

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

| Notes to physician | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.}
\end{align*}
\] |

| Specific treatments | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{No specific treatment.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{No specific treatment.}
\end{align*}
\] |

| Protection of first-aiders | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{No action shall be taken involving any personal risk or without suitable training.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{No action shall be taken involving any personal risk or without suitable training.}
\end{align*}
\] |

**Section 5. Fire-fighting measures**

**5.1 Extinguishing media**

| Suitable extinguishing media | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{Use an extinguishing agent suitable for the surrounding fire.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{Use an extinguishing agent suitable for the surrounding fire.}
\end{align*}
\] |

| Unsuitable extinguishing media | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{None known.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{None known.}
\end{align*}
\] |

**5.2 Special hazards arising from the substance or mixture**

| Specific hazards arising from the chemical | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{In a fire or if heated, a pressure increase will occur and the container may burst.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{In a fire or if heated, a pressure increase will occur and the container may burst.}
\end{align*}
\] |

| Hazardous thermal decomposition products | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{No specific data.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{Decomposition products may include the following materials: carbon dioxide carbon monoxide}
\end{align*}
\] |

**5.3 Advice for firefighters**

| Special protective actions for fire-fighters | \[
\begin{align*}
\text{Brilliant Blue FCF, 0.05 mg/ml, 10 mL} & \quad \text{Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.} \\
\text{LodeStars 2.7 Carboxyl (Prediluted) 2 ml} & \quad \text{Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.}
\end{align*}
\] |

**Date of issue**: 09/30/2021
## Section 5. Fire-fighting measures

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in &quot;For non-emergency personnel&quot;.</td>
</tr>
</tbody>
</table>

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>For emergency responders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
</tr>
</tbody>
</table>

### 6.2 Environmental precautions

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>Methods for cleaning up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
</tr>
</tbody>
</table>

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

| Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |

Date of issue: 09/30/2021
## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Brillant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>Put on appropriate personal protective equipment (see Section 8).</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 mL</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Advice on general occupational hygiene</th>
<th>Brillant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 mL</td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
</tbody>
</table>

### 7.2 Conditions for safe storage, including any incompatibilities

<table>
<thead>
<tr>
<th>Recommendation</th>
<th>Brillant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 mL</td>
<td>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</td>
</tr>
</tbody>
</table>

### 7.3 Specific end use(s)

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Brillant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>Industrial applications, Professional applications.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 mL</td>
<td>Industrial applications, Professional applications.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industrial sector specific solutions</th>
<th>Brillant Blue FCF, 0.05 mg/ml, 10 mL</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 mL</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state: Brilliant Blue FCF, 0.05 mg/ml, 10 mL Liquid.
LodeStars 2.7 Carboxyl (Prediluted) 2 ml Liquid.

Color: Brilliant Blue FCF, 0.05 mg/ml, 10 mL Not available.
LodeStars 2.7 Carboxyl (Prediluted) 2 ml Not available.

Date of issue: 09/30/2021
### Section 9. Physical and chemical properties and safety characteristics

**Odor**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: Not available.
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: Not available.

**Odor threshold**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: Not available.
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: Not available.

**pH**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: Not available.
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: 7.4

**Melting point/freezing point**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: 0°C (32°F)
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: 0°C (32°F)

**Boiling point, initial boiling point, and boiling range**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: 100°C (212°F)
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: 100°C (212°F)

**Flash point**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: Not available.
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: Not available.

**Evaporation rate**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: Not available.
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: Not available.

**Flammability**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: Not applicable.
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: Not applicable.

**Lower and upper explosion limit/flammability limit**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: Not available.
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: Not available.

**Vapor pressure**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Vapor Pressure at 20°C</th>
<th>Vapor Pressure at 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm Hg</td>
<td>kPa</td>
</tr>
<tr>
<td><strong>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>23.8</td>
<td>3.2</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>0.0075</td>
<td>0.001</td>
</tr>
</tbody>
</table>

**Relative vapor density**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL: Not available.
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml: Not available.

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Section 9. Physical and chemical properties and safety characteristics

**Relative density**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - Not available.

**Solubility**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - Easily soluble in the following materials: cold water and hot water.

**Partition coefficient: n-octanol/water**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - Not applicable.

**Auto-ignition temperature**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>°C</th>
<th>°F</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 mL</td>
<td>309</td>
<td>588.2</td>
<td>EU A.16</td>
</tr>
<tr>
<td>Sodium azide</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Decomposition temperature**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - Not available.

**Viscosity**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - Not available.

**Particle characteristics**

**Median particle size**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - Not applicable.

Section 10. Stability and reactivity

**10.1 Reactivity**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - The product is stable.

**10.3 Possibility of hazardous reactions**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - No specific data.

**10.5 Incompatible materials**
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 mL
  - May react or be incompatible with oxidizing materials.
**Section 10. Stability and reactivity**

10.6 Hazardous decomposition products

<table>
<thead>
<tr>
<th>Compound</th>
<th>Concentration</th>
<th>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant Blue FCF</td>
<td>0.05 mg/ml, 10 mL</td>
<td></td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted)</td>
<td>2 ml</td>
<td></td>
</tr>
</tbody>
</table>

**Section 11. Toxicological information**

11.1 Information on toxicological effects

**Acute toxicity**
Not available.

**Irritation/Corrosion**
Not available.

**Sensitization**
Not available.

**Mutagenicity**

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
<th>Not available.</th>
</tr>
</thead>
</table>

**Carcinogenicity**

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
<th>Not available.</th>
</tr>
</thead>
</table>

**Reproductive toxicity**

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
<th>Not available.</th>
</tr>
</thead>
</table>

**Teratogenicity**

<table>
<thead>
<tr>
<th>Conclusion/Summary</th>
<th>Not available.</th>
</tr>
</thead>
</table>

**Specific target organ toxicity (single exposure)**
Not available.

**Specific target organ toxicity (repeated exposure)**
Not available.

**Aspiration hazard**
Not available.

**Information on the likely routes of exposure**

<table>
<thead>
<tr>
<th>Route</th>
<th>Concentration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Route</th>
<th>Concentration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Brilliant Blue FCF, 0.05 mg/ml, 10 mL</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Date of issue: 09/30/2021

10/15
## Section 11. Toxicological information

### Ingestion

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>Volume</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant Blue FCF</td>
<td>0.05 mg/ml</td>
<td>10 mL</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted)</td>
<td>2 ml</td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Symptoms related to the physical, chemical and toxicological characteristics

#### Eye contact

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>Volume</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant Blue FCF</td>
<td>0.05 mg/ml</td>
<td>10 mL</td>
<td>No specific data.</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted)</td>
<td>2 ml</td>
<td></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

#### Inhalation

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>Volume</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant Blue FCF</td>
<td>0.05 mg/ml</td>
<td>10 mL</td>
<td>No specific data.</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted)</td>
<td>2 ml</td>
<td></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

#### Skin contact

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>Volume</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant Blue FCF</td>
<td>0.05 mg/ml</td>
<td>10 mL</td>
<td>No specific data.</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted)</td>
<td>2 ml</td>
<td></td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

<table>
<thead>
<tr>
<th>Effect</th>
<th>Effect Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential immediate effects</td>
<td>Not available.</td>
</tr>
<tr>
<td>Potential delayed effects</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

#### Long term exposure

<table>
<thead>
<tr>
<th>Effect</th>
<th>Effect Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential immediate effects</td>
<td>Not available.</td>
</tr>
<tr>
<td>Potential delayed effects</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

#### Potential chronic health effects

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
<th>Volume</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Brilliant Blue FCF</td>
<td>0.05 mg/ml</td>
<td>10 mL</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted)</td>
<td>2 ml</td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Brilliant Blue FCF</td>
<td>0.05 mg/ml</td>
<td>10 mL</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted)</td>
<td>2 ml</td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Brilliant Blue FCF</td>
<td>0.05 mg/ml</td>
<td>10 mL</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted)</td>
<td>2 ml</td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Brilliant Blue FCF</td>
<td>0.05 mg/ml</td>
<td>10 mL</td>
</tr>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted)</td>
<td>2 ml</td>
<td></td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

### Numerical measures of toxicity

#### Acute toxicity estimates

N/A
Section 11. Toxicological information

Other information:
- Brilliant Blue FCF, 0.05 mg/ml, 10 mL
- LodeStars 2.7 Carboxyl (Prediluted) 2 ml

Not available.

Section 12. Ecological information

12.1 Toxicity
Not available.

12.2 Persistence and degradability
Not available.

12.3 Bioaccumulative potential
Not available.

12.4 Mobility in soil
Soil/water partition coefficient (K<sub>OC</sub>)
Not available.

12.5 Other adverse effects
No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods
Disposal methods:
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Date of issue: 09/30/2021
Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA:
Not regulated.

Special precautions for user:
Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments:
Not available.

Section 15. Regulatory information

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

U.S. Federal regulations:
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: Disodium hydrogenorthophosphate

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):
Not listed
Clean Air Act Section 602 Class I Substances:
Not listed
Clean Air Act Section 602 Class II Substances:
Not listed
DEA List I Chemicals (Precursor Chemicals):
Not listed
DEA List II Chemicals (Essential Chemicals):
Not listed

SARA 302/304

Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>EHS</th>
<th>SARA 302 TPQ (lbs)</th>
<th>SARA 304 RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LodeStars 2.7 Carboxyl (Prediluted) 2 ml Sodium azide</td>
<td>&lt;0.1</td>
<td>Yes.</td>
<td>500</td>
<td>1000</td>
</tr>
</tbody>
</table>

SARA 304 RQ: 6666666.7 lbs / 3026666.7 kg

SARA 311/312

Classification:
Brilliant Blue FCF, 0.05 mg/ml, 10 mL
LodeStars 2.7 Carboxyl (Prediluted) 2 ml
Not applicable.

Composition/information on ingredients
No products were found.

State regulations
Massachusetts: None of the components are listed.
New York: None of the components are listed.
New Jersey: None of the components are listed.
Pennsylvania: None of the components are listed.
California Prop. 65
This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Date of issue: 09/30/2021
Section 15. Regulatory information

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

Montreal Protocol
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

Inventory list
Australia : Not determined.
Canada : Not determined.
China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : Japan inventory (CSCL): Not determined.
Japan inventory (ISHL): All components are listed or exempted.
New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : All components are listed or exempted.
Thailand : Not determined.
Turkey : Not determined.
United States : All components are active or exempted.
Viet Nam : Not determined.

Section 16. Other information

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
<td></td>
</tr>
</tbody>
</table>

History
Date of issue : 09/30/2021
Date of previous issue : 05/20/2019
Version : 2

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
N/A = Not available
UN = United Nations

 Indicates information that has changed from previously issued version.
Notice to reader

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