SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

- **Product form**: Mixture
- **Product name**: Light-Core

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

1.2.1. Relevant identified uses

- **Use of the substance/mixture**: For RX only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

- **Manufacturer**: Bisco, Inc. 1100 W Irving Park Road, Schaumburg, IL 60193 USA
  - 1-847-534-6000, during normal business hours
  - www.bisco.com

- **EC Representative**: Bisico France, 208, allée de la Coudoulette, 13680 Lançon de Provence, France
  - Telephone: 33-4-90-42-92-92

1.4. Emergency telephone number

- **Emergency number**: CHEMTREC - 24-Hour Hazmat Emergency Communications Center
  - Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

- **Classification according to Regulation (EC) No. 1272/2008 [CLP]**
  - Skin sensitisation, Category 1: H317
  - Full text of H statements: see section 16

- **Adverse physicochemical, human health and environmental effects**
  - May cause an allergic skin reaction.

2.2. Label elements

- **Labelling according to Regulation (EC) No. 1272/2008 [CLP]**
  - **Hazard pictograms (CLP)**: ! [GHS07]
  - **Signal word (CLP)**: Warning
  - **Hazardous ingredients**: Proprietary; BisGMA
  - **Hazard statements (CLP)**: H317 - May cause an allergic skin reaction
  - **Precautionary statements (CLP)**: P261 - Avoid breathing vapours
  - P272 - Contaminated work clothing should not be allowed out of the workplace
  - P280 - Wear protective gloves, eye protection, face protection
  - P302+P352 - IF ON SKIN: Wash with plenty of soap and water
  - P321 - Specific treatment (see First aid measures on this label)
  - P333+P313 - IF skin irritation or rash occurs: Get medical advice/attention
  - P362+P364 - Take off contaminated clothing and wash it before reuse
  - P501 - Dispose of contents and container to a hazardous or special waste collection point, a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste, hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available
SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>BisGMA</td>
<td>(CAS-No.) 1565-94-2</td>
<td>5 - 10</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td>Proprietary</td>
<td>(CAS-No.) Proprietary</td>
<td>1 - 5</td>
<td>Skin Sens. 1B, H317</td>
</tr>
<tr>
<td>Acetic Acid substance with a Community workplace exposure limit</td>
<td>(CAS-No.) 64-19-7 (EC-No.) 200-580-7 (EC Index-No.) 607-002-00-6</td>
<td>&lt; 1</td>
<td>Flam. Liq. 3, H226</td>
</tr>
</tbody>
</table>

Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
</table>
| Acetic Acid                               | (CAS-No.) 64-19-7 (EC-No.) 200-580-7 (EC Index-No.) 607-002-00-6 | (10 <=C < 25) Eye Irrit. 2, H319
(10 <=C < 25) Skin Irrit. 2, H315
(25 <=C < 90) Skin Corr. 1B, H314
(C >= 90) Skin Corr. 1A, H314 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:
Get medical advice/attention.
First-aid measures after eye contact: Rinse eyes with water as a precaution.
First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects after skin contact: May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours.

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Mechanically recover the product.
Other information: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing mist, vapours. Wear personal protective equipment.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Acetic Acid (64-19-7)</th>
<th>EU</th>
<th>IOELV TWA (mg/m³)</th>
<th>25 mg/m³ (Acetic acid; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>EU</td>
<td>IOELV TWA (ppm)</td>
<td>10 ppm (Acetic acid; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)</td>
</tr>
<tr>
<td>Belgium</td>
<td>Belgium</td>
<td>Limit value (mg/m³)</td>
<td>25 mg/m³ (Acetic Acid; Belgium; Time-weighted average exposure limit 8 h)</td>
</tr>
<tr>
<td>Belgium</td>
<td>Belgium</td>
<td>Limit value (ppm)</td>
<td>10 ppm (Acetic Acid; Belgium; Time-weighted average exposure limit 8 h)</td>
</tr>
<tr>
<td>Belgium</td>
<td>Belgium</td>
<td>Short time value (mg/m³)</td>
<td>38 mg/m³ (Acetic Acid; Belgium; Short time value)</td>
</tr>
<tr>
<td>Belgium</td>
<td>Belgium</td>
<td>Short time value (ppm)</td>
<td>15 ppm (Acetic Acid; Belgium; Short time value)</td>
</tr>
<tr>
<td>France</td>
<td>France</td>
<td>VLE (mg/m³)</td>
<td>25 mg/m³ (Acetic Acid; France; Short time value)</td>
</tr>
<tr>
<td>France</td>
<td>France</td>
<td>VLE (ppm)</td>
<td>10 ppm (Acide acétique; France; Short time value;)</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Netherlands</td>
<td>Grenswaarde TGG 8H (mg/m³)</td>
<td>25 mg/m³ (Acetic Acid; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)</td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>USA - ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>10 ppm (Acetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)</td>
</tr>
<tr>
<td>USA - ACGIH</td>
<td>USA - ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>15 ppm (Acetic acid; USA; Short time value; TLV - Adopted Value)</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Hand protection:
Protective gloves

Eye protection:
Protective goggles

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Solid
Appearance: Viscous paste.
Colour: Translucent / Blue.
Odour: Acrylic.
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: Not applicable
Boiling point: No data available
Flash point: Not applicable
Auto-ignition temperature: Not applicable
Decomposition temperature: No data available
Flammability (solid, gas): Non flammable.
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: Not applicable
Solubility: No data available
Log Pow: Not applicable
Viscosity, kinematic: Not applicable
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: Not applicable

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

Proprietary (Proprietary)
LD50 oral rat: > 2000 mg/kg bodyweight (Rat; Literature study)
LD50 dermal rat: > 2000 mg/kg bodyweight (Rat; Literature study)

Acetic Acid (64-19-7)
LD50 oral rat: 3310 mg/kg bodyweight (Rat; Other; Read-across)

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

<table>
<thead>
<tr>
<th>Proprietary (Proprietary)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>175 mg/l (LC50; 96 h)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>&gt; 100 mg/l (LC50; EU Method C.1; 96 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 100 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>&gt;= 100 mg/l (NOEC; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 100 mg/l (EC50; EU Method C.3; 72 h; Scenedesmus subspicatus; Static system; Fresh water; Experimental value)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>&gt; 100 mg/l (EC50; EU Method C.3; 72 h; Scenedesmus subspicatus; Static system; Fresh water; Experimental value)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Proprietary (Proprietary)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Readily biodegradable in water.</td>
</tr>
<tr>
<td>Acetic Acid (64-19-7)</td>
<td></td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>0.6 - 0.74 g O₂/g substance</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>1.03 g O₂/g substance</td>
</tr>
<tr>
<td>ThOD</td>
<td>1.07 g O₂/g substance</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Proprietary (Proprietary)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>0.75 (Calculated)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acetic Acid (64-19-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>3.16 (BCF; Pisces)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.17 (Experimental value; 25 °C)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Acetic Acid (64-19-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
<td>0.028 N/m (20 °C)</td>
</tr>
<tr>
<td>Log Koc</td>
<td>log Koc,0.06; QSAR</td>
</tr>
<tr>
<td>Ecology - soil</td>
<td>May be harmful to plant growth, blooming and fruit formation.</td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods : Dispose of contents/container in accordance with licensed collector’s sorting instructions.
# SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

## 14.1. UN number

| UN-No. (ADR) | Not applicable |
| UN-No. (IMDG) | Not applicable |
| UN-No. (IATA) | Not applicable |
| UN-No. (ADN) | Not applicable |
| UN-No. (RID) | Not applicable |

## 14.2. UN proper shipping name

| Proper Shipping Name (ADR) | Not applicable |
| Proper Shipping Name (IMDG) | Not applicable |
| Proper Shipping Name (IATA) | Not applicable |
| Proper Shipping Name (ADN) | Not applicable |
| Proper Shipping Name (RID) | Not applicable |

## 14.3. Transport hazard class(es)

### ADR

- Transport hazard class(es) (ADR): Not applicable

### IMDG

- Transport hazard class(es) (IMDG): Not applicable

### IATA

- Transport hazard class(es) (IATA): Not applicable

### ADN

- Transport hazard class(es) (ADN): Not applicable

### RID

- Transport hazard class(es) (RID): Not applicable

## 14.4. Packing group

| Packing group (ADR) | Not applicable |
| Packing group (IMDG) | Not applicable |
| Packing group (IATA) | Not applicable |
| Packing group (ADN) | Not applicable |
| Packing group (RID) | Not applicable |

## 14.5. Environmental hazards

- Dangerous for the environment: No
- Marine pollutant: No
- Other information: No supplementary information available

## 14.6. Special precautions for user

- **Overland transport**
  No data available

- **Transport by sea**
  No data available

- **Air transport**
  No data available

- **Inland waterway transport**
  No data available

- **Rail transport**
  No data available

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable
SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany
VwVwS Annex reference: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands
SZW-lijst van kankerverwekkende stoffen: None of the components are listed
SZW-lijst van mutagene stoffen: None of the components are listed
NIEUW-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: None of the components are listed
NIEUW-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: None of the components are listed
NIEUW-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: None of the components are listed

Denmark
Recommendations Danish Regulation: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Revision date: 07/16/2018
Full text of H- and EUH-statements:

Eye Irrit. 2: Serious eye damage/eye irritation, Category 2
Flam. Liq. 3: Flammable liquids, Category 3
Skin Corr. 1A: Skin corrosion/irritation, Category 1A
Skin Irrit. 2: Skin corrosion/irritation, Category 2
Skin Sens. 1: Skin sensitisation, Category 1
Skin Sens. 1B: Skin sensitisation, category 1B
H226: Flammable liquid and vapour
H314: Causes severe skin burns and eye damage
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation

SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore be construed as guaranteeing any specific property of the product