# MATERIAL SAFETY DATA SHEET

## TP32 Thermochromic FF Powder - Bis A Free

### 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Thermochromic FF Powder BIS A Free</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Thermochromic powder for use in color change inks. May be used to prepare color change plastic masterbatch.</td>
</tr>
<tr>
<td>Company</td>
<td>Good Life Innovations Ltd</td>
</tr>
<tr>
<td></td>
<td>The Old Stables, Bugle Farm, Plymton, Plymouth</td>
</tr>
<tr>
<td></td>
<td>PL7 5EW</td>
</tr>
<tr>
<td>Telephone</td>
<td>+44 (0) 207 118 3123</td>
</tr>
<tr>
<td>Fax</td>
<td>+44 (0) 871 714 3413</td>
</tr>
<tr>
<td>Emergency telephone number</td>
<td>+44 (0) 207 118 3123</td>
</tr>
</tbody>
</table>

### 2. HAZARDOUS IDENTIFICATION.

**Statement of Hazard**

<table>
<thead>
<tr>
<th>Properties</th>
<th>Color</th>
<th>Various colors according to type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Slight</td>
<td></td>
</tr>
</tbody>
</table>

### 3. COMPOSITION / INFORMATION ON INGREDIENTS.

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Conc.</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde%</td>
<td>0 - 0.5%</td>
<td>50-00-0</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Skin contact**

May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

**Eye contact**

May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Inhalation
Move the exposed person to fresh air. Seek medical attention. Irritating to respiratory system.

Ingestion
Harmful if swallowed. Ingestion may cause nausea and vomiting. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

5. FIRE FIGHTING MEASURES
Extinguishing media
Use as appropriate: carbon dioxide (CO2), dry chemical, foam.

Fire hazards
Burning produces irritating, toxic and obnoxious fumes.

Protective equipment
Self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES
Personal precautions
Ensure adequate ventilation of the working area. Wear suitable protective equipment.

Environmental precautions
Do not allow product to enter drains. Prevent further spillage if safe.

Clean up methods
Avoid raising dust. Sweep up. Transfer to suitable, labeled containers for disposal. Clean spillage area thoroughly with plenty of water.

7. HANDLING AND STORAGE
Handling
Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

Storage
Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

Specific use
On processing FF powders for masterbatch heating may result in generation of formaldehyde. Ensure adequate ventilation of all fumes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION
Exposure limits

Formaldehyde...% (Formaldehyde)
ACGIH TLV TWA: -
ACGIH TLV STEL: C 0.3 ppm
Notations: SEN; A2
OSHA PEL 8hr TWA ppm: -
OSHA PEL 8hr TWA mg m3: -
Skin Designation: -

Engineering measures
Ensure adequate ventilation of the working area.

Respiratory protection
Do not breathe dust or vapor. Wear suitable respiratory equipment when

Hand protection
Chemical resistant gloves (PVC)

Eye protection
Approved safety goggles.

Protective equipment
Wear chemical protective clothing.
9. PHYSICAL AND CHEMICAL PROPERTIES

Description | Powder
Color | Various colors according to type
Odor | Slight
Boiling point | N/A°C

10. STABILITY AND REACTIVITY

Stability | Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

Ecotoxicity | No data is available on this product.

13. DISPOSAL CONSIDERATIONS

General information | Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

Further information | The product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Inventories</th>
<th>TSCA</th>
<th>MA</th>
<th>SARA313</th>
<th>CALPROP65</th>
<th>CWA307</th>
<th>CAA112</th>
<th>CWA311</th>
<th>SARA302</th>
<th>SARA304</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde…%</td>
<td>Y</td>
<td>Y</td>
<td>Y 0.1</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y 500</td>
<td>Y 100</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Statement of Hazard

Further information | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination

HMIS LABELLING | HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 1.