SAFETY DATA SHEET
Photochromic Plastisol Ink

1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Photochromic Plastisol Ink</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Names</td>
<td>None</td>
</tr>
<tr>
<td>Description</td>
<td>Photochromic dye in PVC plastisol</td>
</tr>
<tr>
<td>Intended Use</td>
<td>Manufacture of ultra violet-indicating products and decorative effects.</td>
</tr>
<tr>
<td>Company</td>
<td>LCR Hallcrest</td>
</tr>
<tr>
<td></td>
<td>1911 Pickwick Lane</td>
</tr>
<tr>
<td></td>
<td>Glenvue IL 60026 USA</td>
</tr>
<tr>
<td>Web</td>
<td><a href="http://www.hallcrest.com">www.hallcrest.com</a></td>
</tr>
<tr>
<td>Telephone</td>
<td>+1 847 998 8580</td>
</tr>
<tr>
<td>Fax</td>
<td>+1 847 998 8866</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:sales@hallcrest.com">sales@hallcrest.com</a></td>
</tr>
<tr>
<td>Emergency telephone</td>
<td>Chemtel</td>
</tr>
<tr>
<td>number</td>
<td>Domestic: 800-255-3924</td>
</tr>
<tr>
<td></td>
<td>Intl: +01-813-248-0585</td>
</tr>
</tbody>
</table>

2. HAZARDS IDENTIFICATION.

GHS Classification
- Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Aquatic Toxicity Acute 3 – Harmful to aquatic life
- Aquatic Toxicity Chronic 3 – Harmful to aquatic life with long lasting effects.

GHS Label Elements
- Pictograms

Signal Word
- Warning

Hazard Statements
- Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Aquatic Toxicity Acute 3 – Harmful to aquatic life
Precautionary Statement

Aquatic Toxicity Chronic 3 – Harmful to aquatic life with long lasting effects.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P272 Contaminated work clothing should not be allowed out of the workplace

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P321 Specific treatment (see … on this label)

P363 Wash contaminated clothing before reuse

P302+P352 IF ON SKIN: Wash with soap and water

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

P501 Dispose of contents/container to …

3. COMPOSITION / INFORMATION ON INGREDIENTS.

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Classification</th>
<th>Conc.</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate</td>
<td>Aquatic Chronic 2, Skin Sens 1</td>
<td>&lt;1.0%</td>
<td>41556-26-7</td>
</tr>
<tr>
<td>methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</td>
<td>Aquatic Chronic 2, Skin Sens 1</td>
<td>&lt;0.5%</td>
<td>82919-37-7</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of first aid measures

Skin contact

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

Eye contact

Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation

Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.

Ingestion

Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist.

DO NOT INDUCE VOMITING.

Most important symptoms and effect, both acute or delayed.

Skin contact

Avoid contact with skin. Irritating to skin.

Eye contact

Irritating to eyes.

Inhalation

Irritant, moderate respiratory.

Ingestion

Ingestion may cause nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Skin contact

May cause sensitization by skin contact. Wash off immediately with plenty of soap and water.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Use extinguishing media appropriate to the surrounding fire conditions.

Specific hazards arising from the chemical

Burning produces irritating, toxic and obnoxious fumes.

Special protective actions for fire-fighters

Wear suitable respirator equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures

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.

**Methods and material for containment and cleaning up**  
Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal.

### 7. HANDLING AND STORAGE

**Individual protection measures**  
Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

**Conditions for safe storage, including incompatibilities**  
Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

**Specific end uses**  
Keep away from sources of ignition – No smoking

**Further Information**  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits**

Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
82919-37-7, EC No: 280-060-4 TLV  
TWA: None  
STEL: None  
VLE 8h: None  
VLE short: None

**Control Parameters**

**Individual Protection Measures**

**Eye/face protection**  
Approved safety goggles

**Skin protection – Hand protection**  
Chemical resistant gloves (PVC).

**Respiratory protection**  
Wear: Suitable respiratory equipment.

**Environmental Exposure Controls**  
Appropriate local exhaust ventilation is required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**  
Paste

**Colors**  
Various colors according to type

**Odor**  
Characteristic

**Odor threshold**  
N/A

**pH**  
No testing available

**Melting Point/Freezing Point**  
No testing available

**Initial Boiling Point and Boiling Range**  
No testing available.

**Flash Point**  
227°C

**Evaporation rate**  
No testing available.

**Flammability**  
No testing available.

**Upper/Lower Flammability or Explosive Limits**  
No testing available.

**Vapor Pressure**  
No testing available.

**Solubility**  
Miscible in water.

**% Volatiles (by volume)**  
No testing available.

**Viscosity**  
No testing available.

### 10. STABILITY AND REACTIVITY

**Reactivity**  
No data available

**Chemical Stability**  
Stable under normal conditions.

**Possibility of hazardous reactions**  
No significant hazard
Conditions to avoid
Incompatible materials
Hazardous Decomposition
Products
Protect from frost.
No data available
Formaldehyde may be generated and other harmful fumes.

11. TOXICOLOGICAL INFORMATION

Toxicological Information
41556-26-7 bis(1,2,2,6,6-
pentamethyl-4-piperidyl) sebacate
Rat Oral > 2000mg

Skin corrosion/irritation
No test data available
Serious eye damage/irritation
No test data available
Respiratory or skin sensitization
No test data available
Germ cell mutagenicity
No test data available
Carcinogenicity
No test data available
Reproductive toxicity
No test data available
STOT-single exposure
No test data available
STOT-repeat exposure
No test data available
Aspiration hazard
No test data available
Likely routes to exposure

12. ECOLOGICAL INFORMATION

Toxicity
41556-26-7 bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
EC50 20 mg/L (Daphnia) EC50 (3h) > 100 mg/L (Bacteria) LC50 (96h) (static) 7.9 mg/L (Fish)

Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available
Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods
Absorb with inert, absorbent material.
General Information
Dispose of in compliance with all local and national regulations.
Disposal Methods
Do not empty into drains; dispose of this material and its container in a safe way.

14. TRANSPORT INFORMATION

UN Number
This product is not classified as dangerous for carriage.
UN Proper Shipping Name
This product is not classified as dangerous for carriage.
Transport Hazard class(es)
This product is not classified as dangerous for carriage.
Packing Group (if applicable)
This product is not classified as dangerous for carriage.
Environmental Hazards
This product is not classified as dangerous for carriage.
Special Precautions for the User
This product is not classified as dangerous for carriage.
DOT
This product is not classified as dangerous for carriage.
IMDG
This product is not classified as dangerous for carriage.
IATA
This product is not classified as dangerous for carriage.
Further Information
The product is not classified as dangerous for carriage.

15. REGULATORY INFORMATION

16. OTHER INFORMATION

Revision
Revision 3 6/23/2015: Major revision to include the requirements of the HCS/HazCom 2012 Final Rule.
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 with any other materials or in any other process.

HMIS LABELLING
HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0, Personal Protection B