

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

Product and Brand Name: Optik HeatSeeker  
Supplier: Indigrow Ltd  
Address: The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH. UK.  
Contact Number Tel: +44 (0) 1189 710 995 Fax: +44 (0) 1189 710 990  
Emergency Number Tel: +44 (0) 7725 962 366

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### 2. COMPOSITION – INFORMATION ON INGREDIENTS

Liquid Ink Material (item #101720 sub 3)

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### 3. HAZARD IDENTIFICATION

Emergency Overview: May cause respiratory tract, eye, and skin irritation.  
Potential Acute Health Effects:  
Eyes: Short term harmful effects are not expected. However, irritation may develop causing itching and redness.  
Skin: Short term harmful effects are not expected. However, mild skin irritation may develop causing itching and redness. Temporary discoloration of skin may occur.  
Inhalation: Short term harmful effects are not expected. However, exposure to vapors or mist may cause coughing or wheezing when inhaled.  
Ingestion: Not an intended route of exposure. Short term harmful effects are not expected. However, may upset the gastrointestinal tract.

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### 4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Prolonged or repeated contact may result in mechanical irritation.  
Skin Contact: Wash with soap and water.  
Inhalation: Move to fresh air. Seek medical attention if irritation develops.  
Ingestion: Dilute with water and induce vomiting. Seek medical attention.

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### 5. FIRE FIGHTING MEASURES

Flammability of Product: Not a fire or explosion hazard when stored under normal conditions.  
Fire Fighting Media: Foam, alcohol foam, CO<sub>2</sub>, dry chemical, water fog.  
Protective Clothing: This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard. No special procedures required besides standard fire fighting procedures.

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### 6. ACCIDENTAL RELEASE MEASURES

Clean-Up Procedures: Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled and closed container. Dispose of collected material according to federal, state/provincial and local environmental regulations.  
Spills and Leaks: Contain the spill or leak to prevent discharges to surface streams or storm sewers. This material is a concentrated dye/pigment. Small quantities in contaminated water solutions will color large volumes.

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### 7. HANDLING AND STORAGE

**Handling:** Avoid breathing fumes. General mechanical ventilation can be expected to effectively remove and prevent build up of any vapor or mist generated from handling this product in a closed environment. Protect eyes to prevent contact. Avoid prolonged or repeated exposure to skin.

**Storage:** Keep container in a dry place inaccessible to children and pets at temperatures above freezing. Keep containers sealed until ready for use.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent
Proprietary Water based colorant	Proprietary	None Established	None Established	Proprietary

**Engineering controls:** General mechanical ventilation can be expected to effectively remove and prevent build up of any vapor or mist generated from handling this product in a closed environment.

**Personal Protection:**

- Eyes:** Wear safety glasses with side shields. Wear additional eye protection such as chemical goggles or face shield if splashing or spraying hazard exists. Have an eye wash station available.
- Body:** To prevent skin contact wear coveralls, apron, boots, or lab coat.
- Hands:** Avoid skin contact by using chemically resistant gloves.
- Respiratory:** No respiratory protection required under normal conditions of use. Use local exhaust to control excessive vapors/mists. If excessive vapors or mists persist, use appropriate NIOSH/MSHA approved organic vapor/mist respirator.

**Other:** Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks. Clean clothing should be worn daily to avoid possible long-term build up of the product leading to chronic overexposure.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Odour:	Slight odour
Colour:	Dark Green
Physical state:	Liquid
pH:	7-8
Vapor Density:	Heavier than air
Evaporation Rate:	Slower than ether
Specific Gravity (H <sub>2</sub> O = 1):	1.3 g/mL
Solubility:	Dispersible

### 10. STABILITY AND REACTIVITY

**Chemical Stability:** This material is chemically stable under normal storage and handling conditions.

**Hazardous Decomposition:** When involved in a fire, burning may evolve noxious fumes which may include carbon monoxide, carbon dioxide, nitrous oxides, acetic acid, or other toxic compounds depending on the chemical composition and combustion conditions. However, all of the water must be driven off first for this to occur.

**Hazardous Polymerization:** Is not known to occur.

**Incompatibility (Materials to Avoid):** Mineral acids (i.e., sulfuric, phosphoric, etc); alkalis (i.e. sodium or potassium hydroxide, etc.), strong oxidizing agents, high heat sources, sparks, open flames.

#### 11. TOXOLOGICAL INFORMATION

Chronic Toxicity:	None known
Mutagenic Effects:	None known
Teratogenic Effects:	None known
Developmental Toxicity:	None known
Acute Effects on Humans:	May cause skin, eye, and respiratory irritation.
Sensitization:	Repeated or prolonged exposure to the substance at concentration above the exposure limits may cause respiratory tract and lung sensitization.
Carcinogenic Effects:	This material is not known to cause cancer in animals or humans.
Existing Medical Conditions Aggravated By Exposure:	May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

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#### 12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available, however the material is not expected to have any deleterious toxic effect.
Environmental Fate:	No data available regarding the environmental fate or biodegradation.

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#### 13. DISPOSAL CONSIDERATIONS

EPA Waste Number:	Non-hazardous waste
Treatment:	Dispose of according to all federal, state/provincial and local environmental regulations.

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#### 14. TRANSPORT INFORMATION

D.O.T. Classification:	Not regulated
IMO/IMDG Classification:	Not regulated
IATA Classification:	Not regulated

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#### 15. REGULATORY INFORMATION

Labeling EEC Regulations:	Material is not classified.
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#### 16. OTHER INFORMATION

Validity:	The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.
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