

MATERIAL SAFETY DATA SHEET

Hampford Research, Inc.

SECTION 1. -----CHEMICAL PRODUCT AND COMPANY IDENTIFICATION-----

IR DYE 780

CHEMICAL FORMULA: C36 H44 Cl I N2

CAS NUMBER: 207399-07-3

CHEMICAL NAME: 2-[2-[2-Chloro-3-[(1,3-dihydro-3,3-dimethyl-1-propyl-2H-indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-propylindolium iodide

REVISED: 4/13/2006

MANUFACTURER: Hampford Research, Inc
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CHEMTREC (800) 424-9300

SECTION 2. -----COMPOSITION / INFORMATION ON INGREDIENTS-----

COMPONENT	CAS #	% BY WEIGHT	EXPOSURE LIMITS
2-[2-[2-Chloro-3-[(1,3-dihydro-3,3-dimethyl-1-propyl-2H-indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-propylindolium iodide	207399-07-3	100 %	Not established

SECTION 3. -----HAZARDS IDENTIFICATION-----

EYES: Short term exposure may cause irritation, Effect of long term exposure not known

SKIN: May cause skin irritation.

SWALLOWING: Not known

INHALATION: Short term exposure may cause irritation, Effect of long term exposure not known

SECTION 4. -----FIRST AID MEASURES-----

EYE CONTACT:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SKIN CONTACT:

In case of contact, flush with water followed by washing with soap and water.

INGESTION:

If swallowed, consult a physician. Target organ is the Thyroid

INHALATION:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SECTION 5. -----FIRE FIGHTING MEASURES-----

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic fumes and nitrogen oxides may be formed in a fire.

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FIRE EXTINGUISHING MEDIA:

Water, CO2

SPECIAL FIREFIGHTING INSTRUCTIONS:

Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

SECTION 6. -----ACCIDENTAL RELEASE MEASURES-----

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Review fire fighting measures and handling (personnel) sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up.

SPILL CLEANUP MEASURES:

Use moist towel or absorbent to collect dust. Place in suitable container and hold for proper disposal. Do not allow this material to enter water ways.

SECTION 7. -----HANDLING AND STORAGE-----

HANDLING AND STORAGE REQUIREMENTS:

Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Keep container in a cool place. Keep container in a dark place. Keep container tightly closed. Store in a cool, dry, well-ventilated area away from heat and light.

SECTION 8. -----PERSONAL PROTECTION/EXPOSURE CONTROLS-----

EYE/FACE PROTECTION: Wear safety glasses.

SKIN PROTECTION: If there is potential for dermal contact, wear appropriate impervious clothing and gloves.

RESPIRATORY PROTECTION: No occupational exposure limits have been established. Ensure compliance with applicable exposure limits for particulate mater. Wear a NIOSH approved respirator for dust.

ENGINEERING CONTROLS: Local exhaust ventilation or other engineering controls to control airborne levels are recommended.

SECTION 9. -----PHYSICAL AND CHEMICAL PROPERTIES-----

PHYSICAL STATE: Crystalline powder

MELTING POINT: 232-234 DEGREES C

BOILING POINT: Not available.

SPECIFIC GRAVITY: Not available.

APPEARANCE: Dark green/black

ODOR: Not available.

OTHER:

SECTION 10. -----STABILITY AND REACTIVITY-----

INCOMPATIBILITIES:

None reasonable foreseeable.

HAZARDOUS DECOMPOSITION:

Decomposes at temperatures >250°C forming oxides of nitrogen, carbon dioxide, hydrogen chloride gas, and

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hydrogen iodide

CHEMICAL STABILITY:

Stable at normal temperatures and storage conditions.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

SECTION 11. -----TOXICOLOGICAL INFORMATION-----

TOXICOLOGICAL EFFECTS:

No known human or animal information available

SECTION 12. -----ECOLOGICAL INFORMATION-----

ECOLOGICAL EFFECTS:

Based on Structure Activity Relationship (SAR) this substance is expected to present a chronic risk to aquatic organisms. Do not allow this material to enter water ways.

SECTION 13. -----DISPOSAL INFORMATION-----

WASTE MANAGEMENT PROCEDURES:

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State, and local regulations. Consult site hazardous waste coordinator for proper disposal procedures. Do not allow this material to enter water ways.

SECTION 14. -----TRANSPORT INFORMATION-----

TRANSPORTATION INFORMATION:

-----DOT (DOMESTIC SURFACE)-----

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Solid n.o.s (ORGANIC DYE)
HAZARD CLASS OR DIVISION: 9
UN / NA NUMBER: UN 3077
PACKING GROUP: III
DOT PRODUCT RQ lbs (kgs): Not listed.
HAZARD LABEL (s): Limited Quantity unless over 30 kg 49 CFR 173.155
HAZARD PLACARD (s): Not needed unless over 30 kg 49 CFR 173.155

-----IMO / IMDG CODE (OCEAN)-----

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Solid n.o.s (ORGANIC DYE)
HAZARD CLASS DIVISION NUMBER: 9
UN NUMBER: UN 3077
PACKAGING GROUP: III
HAZARD LABEL (s): Limited Quantity unless over 30 kg 49 CFR 173.155
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-----ICAO / IATA (AIR)-----

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Solid n.o.s (ORGANIC DYE)

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HAZARD CLASS DIVISION NUMBER: 9
UN NUMBER: UN 3077
SUBSIDIARY RISK: NONE
PACKING GROUP: III
HAZARD LABEL (s): 9
RADIOACTIVE?: NO
PASSENGER AIR - MAX QTY: 30 kg
PASSENGER PACKING INSTRUCTION: 911
CARGO AIR - MAX QTY: No Limit
CARGO AIR PACKAGING INSTRUCTION: 911

SECTION 15. -----REGULATORY INFORMATION-----

REGULATORY INFORMATION:

Low Volume Exemption (LVE) under Section: 5(h) (4) of TSCA-Final Conditional Grant. On February 9, 2006 L06-0083 was given a Final Conditional Grant based on workers exposed to the substance must wear NIOSH-approved respirators, adequate protective clothing which covers any exposed parts of the body, impervious gloves, and chemical safety goggles or equivalent eye protection, also there must be no releases to water during processing.

SECTION 16. -----ADDITIONAL INFORMATION-----

ADDITIONAL INFORMATION:

Do not allow this material to enter water ways.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Hampford Research, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. Hampford Research grants permission to make unlimited paper copies for internal use only.