



Material Safety Data Sheet

H-NU 535

Developmental Visible Light Photoinitiator

Experimental Product

For Research & Development Purposes only!

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I. IDENTIFICATION

Name: 2,4,5,7-Tetraiodo-3-hydroxy-6-fluorone

Formula: $C_{13}H_3I_4O_3$

CAS #: 142189-38-6

Synonyms: TIHF, H-Nu 535

II. TOXICITY AND HEALTH HAZARD DATA

A. EXPOSURE LIMITS:

. Not established

B. EXPOSURE EFFECTS:

. Inhalation: Low hazard for usual industrial handling.

. Skin: Low hazard for usual industrial handling.

. Eyes: Can cause eye irritation.

. Ingestion: Non-toxic. Not an ingestion hazard.

C. TOXICITY DATA:

. Ames Test: Negative.

. Eye Irritation: Considered to be an irritant.

. Skin Irritation: Not considered to be a primary skin irritant.

. Oral: LD50 > 2500 mg/kg (mouse).

D. FIRST AID:

. Inhalation: If symptomatic, remove to fresh air. Get medical attention if symptoms persist.

. Skin: Wash after each contact. Get medical attention if symptoms occur.

. Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

III. PHYSICAL DATA

. Appearance: Red Solid

. Molecular Weight: 716

. Melting Point: >270 °C

. Vapor Pressure: Negligible

. Evaporation Rate (n butyl acetate = 1): Negligible

. Volatile Fraction by Weight: Negligible

. Specific Gravity: Not available

. Solubility in Water: Very low

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IV. FIRE AND EXPLOSION HAZARD DATA

- . Flash Point: Not Applicable
- . Extinguishing Media: Water spray; dry chemical; carbon dioxide
- . Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
- . Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

V. REACTIVITY DATA

- . Stability: Stable
- . Hazardous Decomposition Products: Could produce oxides of carbon.
- . Hazardous Polymerization: Will not occur.

VI. VENTILATION AND PERSONAL PROTECTION

- A. VENTILATION AND RESPIRATORY PROTECTION:
Use of a NIOSH-approved respirator is required of workers who are reasonably likely to be exposed to H-Nu 535 via inhalation.
- B. EYE PROTECTION:
Safety glasses with side shields are recommended in industrial operations involving chemicals.
- C. SKIN PROTECTION
Wearing impervious gloves is highly recommended.

SPECIAL STORAGE AND HANDLING PRECAUTIONS

- . Normal conscientious laboratory practice should be exercised.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

- . Sweep up material and package for safe feed to an incinerator.
- . Dispose by incineration or by contact with licensed chemical waste disposal agency. Discharge treatment or disposal may be subject to federal, state or local laws.
- . If already mixed in a monomer resin with visible dye, dispose of by curing with light until it polymerizes and then simply throw it away. **Caution: If disposing of monomer in large quantities, the material should be cured in thin layers so that any heat that may evolve from polymerization is allowed to dissipate.**

H-Nu 535 is an experimental product (not TSCA listed) and as such is to be used for Research and Development purposes only!!! It is restricted for Photoinitiator use only and may not be used for any unrelated purposes.

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