MSDS -- H-Nu 470 Visible Light Photoinitiator

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IDENTIFICATION
Name: 5,7-Diiodo-3-butoxy-6-fluorone
CAS #: 161728-47-8
Formula: C_{17}H_{14}I_{2}O_{3}
Synonyms: DIBF, H-Nu 470

TOXICITY AND HEALTH HAZARD DATA
A. EXPOSURE LIMITS:
  . Not Established

B. EXPOSURE EFFECTS:
  . Inhalation: Low hazard for usual industrial handling.
  . Skin: Moderate skin irritant.
  . Eyes: Eye irritant.
  . Ingestion: Non toxic. Expected to be a low ingestion hazard.

C. TOXICITY DATA:
  . Oral: LD50 > 5000 mg/kg (rat) -- Non-Toxic.
  . Ames Test: Negative
  . Eye Irritation: Eye irritant.
  . Skin Irritation: Moderate skin irritant.

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.

PHYSICAL DATA
  . Appearance: Orange Solid
  . Molecular Weight: 520
  . 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

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.

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

VENTILATION AND PERSONAL PROTECTION
A. VENTILATION AND RESPIRATORY PROTECTION:
   Use of a NIOSH-approved respirator with a NIOSH-approved APF of 10 is required of workers who are reasonably likely to be exposed to H-Nu 470 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.

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 coinitiator, 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 470 has been approved for Low Volume Exemption status from TSCA. It is restricted for Photoinitiator use only and may not be used for any unrelated purposes.

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