Material Safety Data Sheet

H-NU 470 Visible/UV Light Photoinitiator

EMERGENCY PHONE

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I. IDENTIFICATION

Name: 5,7-Diiodo-3-butoxy-6-fluorone
CAS #: 161728-47-8
Formula: $C_{17}H_{14}I_2O_3$
Synonyms: DIBF, H-Nu 470

II. 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.

III. 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

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 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.

VII. SPECIAL STORAGE AND HANDLING PRECAUTIONS

. Normal conscientious laboratory practice should be exercised.

VIII. 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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