Spectra Group Ltd.

MSDS -- H-NU 470 Visible Light Photoinitiator

EMERGENCY PHONE Chemtrec: 1-800-424-9300 Updated: 11/8/2005

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IDENTIFICATION

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