

MATERIAL SAFETY DATA SHEET

Hampford Research, Inc.

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

o-Ethoxy HABI

CHEMICAL FORMULA: C46H38N4O2

CAS NUMBER: 29864-18-4

CHEMICAL NAME: 2,2' Bis(2-ethoxyphenyl)-4,4',5,5' tetraphenyl-1,1'-biimidazole

REVISED: 10/15/2002

MANUFACTURER: Hampford Research, Inc
P.O. Box 1073
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Stratford, CT 06615

EMERGENCY TELEPHONE NUMBERS: OFFICE (203) 375-1137
CHEMTREC (800) 424-9300

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

COMPONENT	CAS #	% BY WEIGHT	EXPOSURE LIMITS
2,2' Bis(2-ethoxyphenyl)-4,4',5,5' tetraphenyl-1,1'-biimidazole	29864-18-4	>99%	

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

EYES: Dust may cause eye irritation.

SKIN: Direct contact may cause skin irritation.

SWALLOWING: Ingestion may irritate gastrointestinal tract.

INHALATION: Dust may be harmful if inhaled.

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 skin with water. Wash contaminated clothing before reuse.

INGESTION:
If swallowed, immediately give 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

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:
Dust forms explosive mixture with air.

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FIRE EXTINGUISHING MEDIA:

Water spray, carbon dioxide, dry chemical or appropriate foam.

SPECIAL FIREFIGHTING INSTRUCTIONS:

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

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:

Scoop up, sweep up, or vacuum. Avoid dust generation. Place in suitable container and hold for proper disposal.

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

HANDLING AND STORAGE REQUIREMENTS:

Keep container in a dark place. SUNLIGHT WILL DAMAGE PRODUCT. Keep container tightly closed. Store in a cool, dry, well-ventilated area. Avoid dust generation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

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

EYE/FACE PROTECTION: Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact from airborne material. Eye bath available.

SKIN PROTECTION: If there is potential for significant dermal contact, wear appropriate impervious clothing such as gloves, apron, boots or whole body suit. Safety shower available.

RESPIRATORY PROTECTION: Where airborne concentrations are expected to exceed exposure limits, a NOISH/MSHA approved air purifying respirator with a dust cartridge or canister may be permissible under certain limited circumstances.

ENGINEERING CONTROLS: Use only with adequate ventilation. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release or exposure levels are not known.

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

PHYSICAL STATE: Solid-powder

MELTING POINT: 175°C (347°F)

BOILING POINT: N/A

SPECIFIC GRAVITY: N/A

APPEARANCE: White to yellow

ODOR:

OTHER: Solubility in water: negligible

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

INCOMPATIBILITIES:

None reasonably foreseeable.

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HAZARDOUS DECOMPOSITION:

Decomposition does not occur under normal use conditions.

CHEMICAL STABILITY:

Stable at normal temperatures and storage conditions. Sunlight will damage product.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

SECTION 11. -----TOXICOLOGICAL INFORMATION-----**TOXICOLOGICAL EFFECTS:**

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

SECTION 12. -----ECOLOGICAL INFORMATION-----**ECOLOGICAL EFFECTS:**

Data not available.

SECTION 13. -----DISPOSAL INFORMATION-----**WASTE MANAGEMENT PROCEDURES:**

Do not flush to surface water or sanitary sewer system. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State and Local regulations.

SECTION 14. -----TRANSPORT INFORMATION-----**TRANSPORTATION INFORMATION:**

Contact Hampford Research, Inc. for transportation information.

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

PROPER SHIPPING NAME:
HAZARD CLASS OR DIVISION:
UN / NA NUMBER:
PACKING GROUP:
DOT PRODUCT RQ lbs (kgs):
HAZARD LABEL (s):
HAZARD PLACARD (s):

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

PROPER SHIPPING NAME:
HAZARD CLASS DIVISION NUMBER:
UN NUMBER:
PACKAGING GROUP:
HAZARD LABEL (s):
HAZARD PLACARD (s):

-----ICAO / IATA (AIR)-----

PROPER SHIPPING NAME:

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HAZARD CLASS DIVISION NUMBER:
UN NUMBER:
SUBSIDIARY RISK:
PACKING GROUP:
HAZARD LABEL (s):
RADIOACTIVE?:
PASSENGER AIR - MAX QTY:
PASSENGER PACKING INSTRUCTION:
CARGO AIR - MAX QTY:
CARGO AIR PACKAGING INSTRUCTION:

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

REGULATORY INFORMATION:

Regulatory Listings: EINECS (EEC); TSCA Inventory Status: LVE listed

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

ADDITIONAL INFORMATION:

TOXICOLOGICAL DATA:

The compound is a slight skin irritant and moderate eye irritant in animals. Skin absorption ALD: >5000 mg/kg in rats

Oral ALD: >11,000 mg/kg in rats

The compound is negative for mutagenicity in bacterial cells.

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.

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