

# MATERIAL SAFETY DATA SHEET

## Hampford Research, Inc.

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

#### DEAW

**CHEMICAL FORMULA:** C27H34N2O

**CAS NUMBER:** 261360-66-1

**CHEMICAL NAME:** Cyclopentanone, 2,5-bis[[4-(diethylamino)phenyl]methylene]-, (2E,5E)-

**REVISED:** 5/6/2005

**MANUFACTURER:** Hampford Research, Inc  
P.O. Box 1073  
54 Veterans Blvd.  
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
Cyclopentanone, 2,5-bis[[4-(diethylamino)phenyl]methylene]-, (2E,5E)-	261360-66-1	99.2%	Not available.

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

**EYES:** Avoid contact.

**SKIN:** Avoid contact.

**SWALLOWING:** Throat discomfort, irritation of micro membranes

**INHALATION:** Respiratory discomfort

### SECTION 4. -----FIRST AID MEASURES-----

**EYE CONTACT:**  
In case of contact, flush eyes with copious amounts of water for at least 15 minutes.

**SKIN CONTACT:**  
In case of contact, immediately wash skin with soap and water for at least 15 minutes. Wash contaminated clothing before reuse.

**INGESTION:**  
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**INHALATION:**  
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

### SECTION 5. -----FIRE FIGHTING MEASURES-----

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
None expected.

**FIRE EXTINGUISHING MEDIA:**  
Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Revision Date: 5/6/2005

Page 1 of 4

Chemical Name: Cyclopentanone, 2,5-bis[[4-(diethylamino)phenyl]methylene]-, (2E,5E)-

# Material Safety Data Sheet

## SPECIAL FIREFIGHTING INSTRUCTIONS:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Evacuate personnel to a safe area. Keep personnel removed and upwind of fire.

## SECTION 6. -----ACCIDENTAL RELEASE MEASURES-----

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

### SPILL CLEANUP MEASURES:

Scoop up, sweep up or vacuum. Avoid dust generation. Place in suitable container and hold for proper disposal. Ventilate area and wash spill site after material pickup is complete. Ensure there is no discharge into local water.

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

### HANDLING AND STORAGE REQUIREMENTS:

Keep container tightly closed. Store in a cool, dry place. Avoid prolonged or repeated exposure and dust generation.

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

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

**SKIN PROTECTION:** Wear appropriate impervious clothing such as compatible chemical-resistant coverall and gloves. Safety shower available.

**RESPIRATORY PROTECTION:** NIOSH/MSHA approved air purifying respirator.

**ENGINEERING CONTROLS:** Use adequate general or local exhaust to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation or other engineering controls to control airborne levels.

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

**PHYSICAL STATE:** Solid  
**MELTING POINT:** 186°C-189°C  
**BOILING POINT:** NA  
**SPECIFIC GRAVITY:** NA  
**APPEARANCE:** Red  
**ODOR:** Aromatic odor  
**OTHER:** Solubility in water: nil

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

### INCOMPATIBILITIES:

Avoid strong oxidizing and reducing agents.

### HAZARDOUS DECOMPOSITION:

Toxic fumes of carbon monoxide and carbon dioxide.

### CHEMICAL STABILITY:

Stable

# Material Safety Data Sheet

## HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

## SECTION 11. -----TOXICOLOGICAL INFORMATION-----

### TOXICOLOGICAL EFFECTS:

DEAW is a potentially bioaccumulative toxin based on EPA's modeling.

## SECTION 12. -----ECOLOGICAL INFORMATION-----

### ECOLOGICAL EFFECTS:

DEAW is a potentially bioaccumulative toxin based on EPA's modeling do not allow any releases to water.

## SECTION 13. -----DISPOSAL INFORMATION-----

### WASTE MANAGEMENT PROCEDURES:

The liner in the fiber drum should be removed and treated as hazardous waste . Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State and Local environmental regulations. The EPA Final Conditional Grant is based on no releases to water during processing or disposal.

## SECTION 14. -----TRANSPORT INFORMATION-----

### TRANSPORTATION INFORMATION:

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

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Solid n.o.s Cyclopentanone, 2,5-bis[[4-(diethylamino)phenyl]methylene

HAZARD CLASS OR DIVISION: 9

UN / NA NUMBER: UN 3077

PACKING GROUP: III

DOT PRODUCT RQ lbs (kgs): Not listed.

HAZARD LABEL (s): Limited Quantity unless over 30 kg 49 CFR 173.155

HAZARD PLACARD (s): Not needed unless over 30 kg 49 CFR 173.155

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

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Solid n.o.s Cyclopentanone, 2,5-bis[[4-(diethylamino)phenyl]methylene

HAZARD CLASS DIVISION NUMBER: 9

UN NUMBER: UN 3077

PACKAGING GROUP: III

HAZARD LABEL (s): Limited Quantity unless over 30 kg 49 CFR 173.155

HAZARD PACKARD (s): Not needed unless over 30 kg 49 CFR 173.155

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

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Solid n.o.s Cyclopentanone, 2,5-bis[[4-(diethylamino)phenyl]methylene

Revision Date: 5/6/2005

Page 3 of 4

Chemical Name: Cyclopentanone, 2,5-bis[[4-(diethylamino)phenyl]methylene]-, (2E,5E)-

# Material Safety Data Sheet

HAZARD CLASS DIVISION NUMBER: 9  
UN NUMBER: UN 3077  
SUBSIDIARY RISK: NONE  
PACKING GROUP: III  
HAZARD LABEL (s): 9  
RADIOACTIVE?: NO  
PASSENGER AIR - MAX QTY: 30 kg  
PASSENGER PACKING INSTRUCTION: 911  
CARGO AIR - MAX QTY: No Limit  
CARGO AIR PACKAGING INSTRUCTION: 911

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

### REGULATORY INFORMATION:

Low Volume Exemption (LVE) under Section: 5(h) (4) of TSCA-Final Conditional Grant. On January 13, 2005 LM05-0010 was given a Final Conditional Grant based on no releases to water during processing.

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

### ADDITIONAL INFORMATION:

NA

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.

Revision Date: 5/6/2005

Page 4 of 4

Chemical Name: Cyclopentanone, 2,5-bis[[4-(diethylamino)phenyl]methylene]-, (2E,5E)-