

# MATERIAL SAFETY DATA SHEET

## Hampford Research, Inc.

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

#### 3P2HPM

**CHEMICAL FORMULA:** C13 H16 O4

**CAS NUMBER:** 16926-87-7

**CHEMICAL NAME:** 3-PHENOXY-2-HYDROXY PROPYL METHACRYLATE

**REVISED:** 5/17/2006

**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
3-PHENOXY-2-HYDROXY PROPYL METHACRYLATE	16926-87-7	99%	Not available

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

**EYES:** This material is expected to cause slight eye irritation.

**SKIN:** This material is expected to be a slight skin irritant and may cause an allergic reaction (sensitization) in susceptible individuals upon repeated exposure.

**SWALLOWING:** This material is not expected to be an ingestion hazard.

**INHALATION:** Irritating to upper respiratory tract and to mucous membranes. Symptoms of irritation may include coughing, mucous production and shortness of breath.

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

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

**SKIN CONTACT:**  
In case of contact, immediately wash skin with soap and copious amounts of 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:**  
High temperatures, inhibitor depletion, or exposure to radiation, oxidizer or impurities may lead to runaway spontaneous polymerization generating heat and pressure. Closed containers may rupture or explode. Glass containers may shatter.

# Material Safety Data Sheet

## FIRE EXTINGUISHING MEDIA:

Water spray/fog, carbon dioxide, dry chemical powder or appropriate foam. Water may be an ineffective extinguisher due to low solubility of product.

## SPECIAL FIREFIGHTING INSTRUCTIONS:

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fight fire from safe distance. Cool tank/container with water spray.

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

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Wear respirator, chemical safety goggles, rubber apron, rubber boots and heavy rubber gloves. Dike spill. Prevent material from entering sewers, waterways, or low areas. Spilled material may polymerize and release heat and gases.

### SPILL CLEANUP MEASURES:

Extinguish all ignition sources and blanket spilled material with firefighting foam. Soak up with inert absorbent, such as vermiculite or clay. Ventilate area and wash spill site after material pickup is complete.

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

### HANDLING AND STORAGE REQUIREMENTS:

Keep away from heat, sparks and flames. Unless inhibited, product can polymerize. Check inhibitor content often, adding bulk liquid if needed. Do not blanket or mix with oxygen-free gas as it renders inhibitor ineffective. Limit storage time. Do not store below 32°F or inhibitor can separate as a solid. If frozen, warm and remix the material gently (<90°F). Prevent moisture contact. Use only non-sparking tools. Store at or above 32°F.

## 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 coveralls and gloves. Safety shower available.
- RESPIRATORY PROTECTION:** NIOSH/MSHA approved air purifying respirator may be permissible under certain limited circumstances. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release or exposure levels are not known.
- ENGINEERING CONTROLS:** Use only with adequate ventilation.

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

- PHYSICAL STATE:** Liquid
- MELTING POINT:** N/A Flash Point >200°F
- BOILING POINT:** >200+°C
- SPECIFIC GRAVITY:** 1.1
- APPEARANCE:** Yellow
- ODOR:** Characteristic mild odor
- OTHER:** Solubility in water: slight

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

# Material Safety Data Sheet

**INCOMPATIBILITIES:**

Avoid strong oxidizers, acids, or alkalis, free radical initiators and inert gases.

**HAZARDOUS DECOMPOSITION:**

Decomposition does not occur under normal use conditions. Combustion produces carbon oxides and perhaps other toxic vapors.

**CHEMICAL STABILITY:**

Unstable with heat. Unstable on loss of inhibitor.

**HAZARDOUS POLYMERIZATION:**

Polymerization may occur. Conditions leading to polymerization include exposure to heat, direct sunlight, oxidizing conditions, freezing conditions, UV radiation, inert gas blanketing, strong oxidizers, free radical initiators and oxygen scavengers.

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

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

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

Data not yet available.

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

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and Local environmental regulations.

**SECTION 14. -----TRANSPORT INFORMATION-----****TRANSPORTATION INFORMATION:****-----DOT (DOMESTIC SURFACE)-----**

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Liquid n.o.s(2-Propenoic acid, 2-methyl-, 2-hydroxy-3-phenoxypropyl ester)

HAZARD CLASS OR DIVISION: 9

UN / NA NUMBER: UN 3082

PACKING GROUP: III see CFR 173.155 for packing requirements

DOT PRODUCT RQ lbs (kgs): 1000 LBS

HAZARD LABEL (s): 9

HAZARD PLACARD (s): CFR 173.155 Not required if under 66 lbs.

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

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Liquid n.o.s(2-Propenoic acid, 2-methyl-, 2-hydroxy-3-phenoxypropyl ester)

# Material Safety Data Sheet

HAZARD CLASS DIVISION NUMBER: 9

UN NUMBER: UN 3082

PACKAGING GROUP: III see CFR 173.155 for packing requirements

HAZARD LABEL (s): 9

HAZARD PACKARD (s): CFR 173.155 Not required if under 66 lbs

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

PROPER SHIPPING NAME: Enviromentally Hazardous Substance, Liquid n.o.s(2-Propenoic acid, 2-methyl-, 2-hydroxy-3-phenoxypropyl ester)

HAZARD CLASS DIVISION NUMBER: 9

UN NUMBER: UN 3082

SUBSIDIARY RISK: NONE

PACKING GROUP: III

HAZARD LABEL (s): 9

RADIOACTIVE?: NO

PASSENGER AIR - MAX QTY: NO LIMIT

PASSENGER PACKING INSTRUCTION: 914

CARGO AIR - MAX QTY: NO LIMIT

CARGO AIR PACKAGING INSTRUCTION: 914

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

**REGULATORY INFORMATION:**

On TSCA Inventory

May 2004 Inventory Tape.

On DSL

Supplement to Canada Gazette, Part I, January 26, 1991.

On EINECS

Annex to Official Journal of the European Communities, 15 June 1990.

On AICS

Australian Inventory of Chemical Substances, June 1996 Ed.

On ECL

Korean Existing Chemicals List, January 1997.

On PICCS

Philippines Inventory of Chemicals and Chemical Substances, 2000.

On ASIA-PAC

This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

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

**ADDITIONAL INFORMATION:**

NPCA-HMIS Rating:

Health: 1

Flammability: 1

Reactivity: 2

Personal Protection: D

This material contains an inhibitor (HQ, MEHQ, etc.) at <1%. The type and amount meet product specifications.

Revision Date: 5/17/2006

Page 4 of 5

Chemical Name: 3-PHENOXY-2-HYDROXY PROPYL METHACRYLATE

# Material Safety Data Sheet

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: 5/17/2006

Chemical Name: 3-PHENOXY-2-HYDROXY PROPYL METHACRYLATE

Page 5 of 5