

MATERIAL SAFETY DATA SHEET

Hampford Research, Inc.

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

BIS(GMA)PHOSPHATE

CHEMICAL FORMULA: C22 H31 O12 P

CAS NUMBER: 168191-79-5

CHEMICAL NAME: 2-Propenoic acid, 2-methyl-, phosphinicobis(oxy-2,1,3-propanetriyl) ester

REVISED: 4/29/2003

MANUFACTURER: Hampford Research, Inc
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CHEMTREC (800) 424-9300

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

COMPONENT	CAS #	% BY WEIGHT	EXPOSURE LIMITS
2-Propenoic acid, 2-methyl-, phosphinicobis(oxy-2,1,3-propanetriyl) ester	168191-79-5	100	

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

EYES: Avoid contact with eyes.

SKIN: Avoid contact with skin.

SWALLOWING: Do not ingest.

INHALATION: DATA NOT AVAILABLE

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:

Avoid exposure to high temperatures, inhibitor depletion, accidental impurities, radiation, and oxidizers. May cause spontaneous polymerization generating heat. Closed containers may rupture during runaway polymerization.

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FIRE EXTINGUISHING MEDIA:

Water spray/fog for cooling.

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.

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

PERSONAL PROTECTIVE EQUIPMENT (PPE):

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

SPILL CLEANUP MEASURES:

Scoop up, sweep up, or vacuum. Place in suitable container and hold for proper disposal. Ventilate area and wash spill site after material pickup is complete.

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

HANDLING AND STORAGE REQUIREMENTS:

Store in a dark, cool area. Never use steam or electrical heating systems such as tapes, mantles, jackets, heat guns or heat lamps to thaw this product. The use of concentrated heat will cause polymerization and possible rupture of the container. Unless inhibited, product can polymerize, possibly rupturing container. Check inhibitor content often. Do not blanket with oxygen free gas. Prevent freezing; inhibitor separates as a solid.

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. Safety shower available.

RESPIRATORY PROTECTION: NIOSH/MSHA approved air purifying respirator.

ENGINEERING CONTROLS: Local exhaust required.

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

PHYSICAL STATE: Liquid

MELTING POINT: NA

BOILING POINT: NA

SPECIFIC GRAVITY: 1.25

APPEARANCE: Yellowish

ODOR: Mild ester odor

OTHER:

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

INCOMPATIBILITIES:

Oxidizing agents and polymerization initiators.

HAZARDOUS DECOMPOSITION:

Unknown

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CHEMICAL STABILITY:

Stable

HAZARDOUS POLYMERIZATION:

Polymerization may occur if containers are exposed to prolonged or excessive heat.

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

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

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

Data not yet available.

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

Contaminated product/soil/water may be RCRA/OSHA Hazardous Waste due to potential for internal heat generation (see 40 CFR 261 & 29 CFR 1910). Observe all Federal, State and Local environmental regulations.

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

Not considered hazardous for transportation not regulated by DOT or IATA

-----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 PACKARD (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:

Not listed on the TSCA Inventory. This product is strictly produced and is available for dental applications only. This product is regulated by the Food and Drug Administration (FDA) and this product is excluded from the TSCA regulation.

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

ADDITIONAL INFORMATION:

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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