

MATERIAL SAFETY DATA SHEET

Hampford Research, Inc.

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

THEIC TRIACRYLATE

CHEMICAL FORMULA: C18 H21 N3 O9

CAS NUMBER: 40220-08-4

CHEMICAL NAME: Tris (2-Hydroxyethyl Isocyanurate Triacrylate)

REVISED: 1/21/2002

MANUFACTURER: Hampford Research, Inc
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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
Tris(2-Hydroxyethyl) Isocyanurate Triacrylate	40220-0-84	98	

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

EYES: Irritating, and may injure eye tissue if not removed promptly.

SKIN: Based on similar product testing, this material is presumed to be irritating to the skin. May cause skin sensitization, a partial or whole-body dermatitic rash experienced after exposure, however minimal.

SWALLOWING: Irritating to mouth, throat and stomach. May cause gastric tract disorder and/or damage. May cause vomiting.

INHALATION: Vapors may be irritating to respiratory system and nasal passages. Irritating and/or toxic vapors may be released at elevated temperatures.

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 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, 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.

SECTION 7. -----HANDLING AND STORAGE-----**HANDLING AND STORAGE REQUIREMENTS:**

Store in a dark, cool area. . Do not blanket or mix with oxygen-free gas.

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.

ENGINEERING CONTROLS: Local exhaust required.

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

PHYSICAL STATE: Solid
MELTING POINT: 43-58°C
BOILING POINT: Unknown
SPECIFIC GRAVITY: 1.3
APPEARANCE: White
ODOR: Mild odor
OTHER: Solubility in water: nil

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

INCOMPATIBILITIES:
Avoid strong oxidizing agents and polymerization initiators.

HAZARDOUS DECOMPOSITION:
Unknown

CHEMICAL STABILITY:
Stable at ambient temperatures.

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

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

TOXICOLOGICAL EFFECTS:

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

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:
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:

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

REGULATORY INFORMATION:

Inventory Status:

On TSCA Inventory

July 2001 Inventory Tape.

Commencement to manufacture, Fed. Regist. 48 #124:29601 (27 Jun 1983); TSCA Chem.-in-Prog. Bull. 4 #4:2 (Aug. 1983); Fed. Regist. 50 #89:19453 (08 May 1985); TSCA Chem.-in-Prog. Bull. 6 #3:8 (July 1985); Fed. Regist. 54

#196:41920 (12 Oct 1989).

EPA Flags:

P Commenced PMN

On NDSL

Canada Gazette, Part I, January 31, 1998.

On EINECS

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

On ENCS

Unlisted chemical name. For ENCS chemical class or category name, refer to ENCS No. 5-1060.

On AICS

Australian Inventory of Chemical Substances, June 1996 Ed.

On ECL

Korean Government Gazette Notice, 2000.

Regulatory List Number:

EPA No.: P 83-474

EINECS No.: 254-843-6

ENCS No.: 5-1060X

ECL Serial No.: 2000-3-1626

Confidentiality Status

Public

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.