

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: #705 Anaerobic Thread Sealant  
 Date Printed: June 1, 2007  
 Product Use/Class: Anaerobic Adhesive

Supplier: International Epoxies & Sealers  
 30241 Commerce Drive  
 San Antonio, FL 33576  
 Information Phone: 1-800-451-7206

Emergency Telephone: INFOTRAC 1-800-535-5053  
 Outside the U.S. Call collect: 1-352-323-3500

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredients		% Wt.	CAS #	EC No.
Polyethylene Glycol Dimethacrylate	Xi: R36 R43	45 - 65	923-26-2	213-090-3
Trimethylolpropane triacrylate	Xi: R36/38 R43	10 - 25	15625-89-5	239-701-3
Cumene hydroperoxide	O: R7 T: R23 Xn: R21/22, 48/20/22 C: R34 N: 51, 53	0.5 - 3	80-15-9	201-254-7
1-Acetyl-2phenylhydrazine	Xn: R20/21/22 R40Xi:R36/37/38R43	0.10 - 0.95	114-83-0	204-055-3

See Section 16 for the wording of the listed risk phrases.

**3. HAZARDOUS IDENTIFICATION**

Relevant routes of exposure: Skin, Inhalation, Eyes

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves and eye/face protection.

Prolonged or repeated over-exposure may lead to sensitizing effects and/or dermatitis in sensitive individuals.

HMIS:

HEALTH: 1      FLAMMABILITY: 1      REACTIVITY: 1      PPE: H

WARNING: CAUSES EYE IRRITATION.  
 MAY CAUSE SKIN IRRITATION.  
 MAY CAUSE ALLERGIC SKIN REACTION.  
 MAY CAUSE RESPIRATORY TRACT IRRITATION.

**4. FIRST AID MEASURES**

Ingestion: Do not induce vomiting. Give plenty of water to drink. Beware of aspiration if vomiting occurs - seek medical attention immediately.

Inhalation: Remove to fresh air. If symptoms develop or persist, obtain medical attention.

Skin Contact: Remove contaminated clothing and shoes. Rinse immediately with plenty of water and then wash with soap. Get medical attention if symptoms occur.

Eye Contact: Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.

**5. FIRE FIGHTING MEASURES**

Suitable Extinguishers: Alcohol Resistant Foam Dry Powder Carbon Dioxide.

Unsuitable Extinguishers: Direct water jets.

Hazardous Decomposition: Possible risk of explosion. Toxic fumes are produced in fire – CO, Co2, oxides of nitrogen possibly evolved.

Special Procedures: Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Wear eye protection. Large fires should only be dealt with by trained personnel. Use water spray to cool containers. Prevent runoff from fire control from entering waterways.

**6. ACCIDENTAL RELEASE MEASURES**

Exposure Controls: Ventilate area.  
Evacuate all personnel. Use barriers to prevent unauthorized entry into contaminate areas.  
Do not allow spill to enter drains and watercourses.

Personal Protection: Wear suitable respiratory protection for large spillages and in confined spaces, e.g. EN405 FFA2 or EN140 A2.  
Wear polythene gloves.  
Wear chemically resistant overalls and boots.  
Use eye protection such as goggles to BS EN 166 Chemical Grade.

Disposal Considerations: Absorb in inert material such as sand or absorbent granules.  
Scoop up and place in plastic container to await transfer.  
Dispose in accordance with local regulations.

**7. HANDLING AND STORAGE**

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling.  
Ensure adequate ventilation and/or use local extraction.

Storage: For safe storage, store at or below 38 °C (100 °F). Keep in a cool, dry well-ventilated area out of direct sunlight.  
Keep away from sources of ignition.  
Store in tightly closed, labeled containers. Can be stored in LDPE containers.  
Do not allow to contact or store in aluminum, mild steel, rusty steel, copper or (alloys of) or tin vessels.

**8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

Occupational Exposure Limit: Not Applicable

Eye/Face Protection: Wear eye goggles, such as rated to BS EN 166. Ensure eye-wash facilities/station are close to hand.

Skin Protection: Wear gloves-polythene, neoprene or nitrile. Do not use PVC or latex. After skin contact, wash immediately with plenty of water.

Respiratory Protection: Use in well ventilated areas. Use local exhaust ventilation if exposed for long periods.  
If excessive inhalation in a poorly ventilated area is likely then use a respirator with filter type A.

If handling large quantities, wear suitable protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: High Viscosity Liquid/Paste  
Color: White  
Odor: Slightly sweet, characteristic  
pH: ~3-5  
Boiling point/range: Not Applicable  
Melting point/range: Not Applicable  
Flash Point: >100 degree c  
Flammability: Non – Flammable  
Explosive Properties: Not available  
Oxidizing Properties: None  
Vapor pressure: ~0.1 mmHg at 20 degree c  
Relative Density: ~1.08  
Solubility in water: Low Solubility  
Solubility in Solvents: Miscible in organic solvents, e.g. acetone  
Vapor density: Not established  
Partition coefficient, log Pow: Not established (but likely to be <3)  
Evaporation rate (Bu Ac=1): Not established

**10. STABILITY AND REACTIVITY**

Stability: Stable at normal temperatures.  
Conditions to avoid: Elevated temperatures, direct sunlight, sources of ignition, low oxygen environments.

# MATERIAL SAFETY DATA SHEET

**Product #705**

Hazardous exothermic polymerization can occur if exposed to elevated temperatures for periods of time.  
Air space/oxygen above the product is vital to keep formulatory inhibitors active.  
Materials to avoid: Oxidizing agents, free-radical initiators, reducing metal oxides.  
Do not allow to contact or store in aluminum, mild steel, rusty steel, copper or alloys of tin vessels.  
Hazardous decomposition products: Combustion/exothermic polymerization will generate oxides of carbon, acrid smoke and irritating fumes.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral – Expected to be very low – LD50 (rat) is likely to be in the range 5,000-10,000mg/kg.  
Inhalation – Expected to be low.  
Skin – Expected to be low – LD50 (rabbit) estimated to be > 3,000mg/kg  
Respiratory Tract – Mild irritation of nose and throat.  
Sensitization: Not tested, but not anticipated.  
Repeated dose-toxicity: Not tested, but not anticipated.  
Mutagenicity: Not tested, but not anticipated.  
Carcinogenicity: Not tested, but not anticipated.  
Reproductive Toxicity: Not tested, but not anticipated.

## 12. ECOLOGICAL INFORMATION

Not classified as Dangerous for the Environment by the Conventional Method as detailed in Schedule 3, Parts I and III of CHIP3 Regulations.

Ecotoxicity: Considered to be low – due to probable biodegradability and Log Pow expected to be <3.  
Bioaccumulative potential: Expected to be low.  
Persistence: Considered to be biodegradable – testing of one major (non-declarable) component gave a biodegradability result of 85% after 28 days.  
Mobility: Considered to be relatively low due to low water solubility.

## 13. DISPOSAL CONSIDERATIONS

Do not discharge into drains or watercourses. Dispose of product through properly licensed contractors under national and local legislation.  
Product residues can be cleaned out of containers. Dispose of in accordance with the Special Waste Regulations 1996.  
Hardened product can be disposed of as chemical waste by incineration or licensed contractors. Clean containers can be disposed of by landfill or incineration or possibly recycled.

## 14. TRANSPORTATION INFORMATION

U.S. Dept. of Transportation Ground (49 CFR):  
Proper Shipping Name: Unrestricted  
Hazard Class or Division: None  
Identification Number: None  
Packaging Group: None

International Air Transportation (ICAO/IATA):  
Proper Shipping Name: Unrestricted  
Hazard Class or Division: None  
Identification Number: None  
Packaging Group: None

Water Transportation (IMO/IMDG):  
Proper Shipping Name: Unrestricted  
Hazard Class or Division: None  
Identification Number: None  
Packaging Group: None  
Marine Pollutant: None

UN No: None

# MATERIAL SAFETY DATA SHEET

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IMDG: - Packing Group:-  
IATA/ICAO: - Packing Group:-  
ADR/RID: - Item: - Flash Point:-  
Transport Name: None-not hazardous for transport.

## 15. REGULATORY INFORMATION

Symbol(s) & Indication(s) of DANGER



Irritant

Label Phrases: Contains 2-hydroxypropyl methacrylate and trimethylolpropane triacrylate.

### Risk & Safety Phrases

R41 Risk of serious damage to eyes.  
R37/38 Irritating to respiratory system and skin.  
R43 May cause sensitization by skin contact.  
S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39 Wear Suitable gloves and eye/face protection.

### Other Relevant Regulations and Publications

Health & Safety at Work etc. Act 1974  
COSHH Essentials  
Environmental Protection Act 1990

Control of Substances Hazardous to Health Regulations 1994  
EH40/series – Occupational Exposure Limits  
Special Waste Regulations 1996

## 16. OTHER INFORMATION

Risk phrases referred to in section 2:

R7 May cause fire.  
R10 Flammable  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R33 Danger of cumulative effects.  
R34 Causes burns.  
R35 Causes severe burns.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R40 Limited evidence of a carcinogenic effect.  
R43 May cause sensitization by skin contact.  
R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
R50 Very toxic to aquatic organism.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: may cause lung damage if swallowed.

Prepared by: Technical Manager

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**END OF MSDS**