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 1893 BARRETT ROAD 24 hr. EMERGENCY CHEMTREC:
 TROY, MICHIGAN 48084 1-800-424-9300

PRODUCT: 131600 (131) Stud Grade™ Permanent
 MSDS ID: ND2049
 ORIG. DATE: 9/15/97
 REV. DATE: 5/31/07
 REV. DATE:
 PREPARED BY: Chemical Safety

SECTION I -Material Identification and Information H: 2 F: 1 R: 1 PPEC

COMPONENTS	CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Polyglycol Dimethacrylate	NDA-09-332	25852-47-5 65-70	n.e.	n.e.	
Polyester resin	NDA-09-152	Proprietary 20-25	n.e.	n.e.	
Saccharin	NDA-09-150	81-07-2 2-5	n.e.	n.e.	
Cumene hydroperoxide	NDA-09-151	80-15-9 1-3	n.e.	n.e.	
Alkyl toluidine	NDA-09-169	613-48-9 <1	n.e.	n.e.	
Aromatic amine	NDA-09-170	609-72-3 <0.3	none	none	

All ingredients are listed on the TSCA Inventory. n.a. = not applicable / n.e. = not established

SECTION II -Physical and Chemical Characteristics

BOILING POINT:	> 200°C	VOC #/gal. :	1.185
VAPOR DENSITY:	n.e. air = 1	DENSITY OF COATING:	
VAPOR PRESSURE:	n.e.		
MELTING POINT:	n.a.		
SPECIFIC GRAVITY:	> 1.0 water = 1		
EVAPORATION RATE:	n.a.		
WATER REACTIVE:	No		
SOLUBILITY IN WATER:	Insoluble		
APPEARANCE AND ODOR:	Red translucent liquid with cumene odor.		

SECTION III - Fire and Explosion Hazard Data

FLASH POINT:	> 160°C	PMCC
AUTOIGNITION TEMPERATURE:	not determined	
FLAMMABILITY LIMITS % IN AIR:	LEL: not determined	UEL: not determined
EXTINGUISHER MEDIA:	Use carbon dioxide, foam, dry chemical and/or water spray.	
SPECIAL FIREFIGHTING PROCEDURES:	Wear a NIOSH approved self-contained breathing apparatus operated in pressure-demand or other positive pressure when fighting fires. Sealed containers may rupture explosively if exposed to heat.	
UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID:	Combustion of product may produce oxides of carbon.	

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SECTION IV - Reactivity Hazard Data

STABILITY: **stable:** **X** **unstable:**
HAZARDOUS POLYMERIZATION: **may occur:** **will not occur:** **X**
CONDITIONS TO AVOID: As supplied; avoid unintentional mixing of material with other and storage temperatures exceeding 120°F and strong oxidizing agents.

INCOMPATIBILITY: Avoid strong oxidizing agents and storage temperatures exceeding 120°F. Avoid exposure to steel or rust.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion yields oxides of carbon and possible toxic fumes.

SECTION V - Health Hazard Data

PRIMARY ROUTES OF ENTRY: **INHALATION:** **X** **INGESTION:** **X** **SKIN ABSORPTION:** **X**

EYE CONTACT: A primary route of exposure that will cause eye irritation characterized by excessive tearing, redness and blinking.

FIRST AID: Flush eyes with generous amounts of water for 20-30 minutes, lifting both upper and lower eyelids occasionally. Get medical attention.

SKIN CONTACT: A primary route of exposure that may cause moderate skin irritation and allergic skin reaction. May cause rash, redness, swelling and blistering (symptoms may be delayed)

FIRST AID: Thoroughly wash exposed area with soap and water. If irritation develops, seek medical attention. Launder clothing before reuse.

INHALATION: Vapors generated at elevated temperatures, may cause respiratory tract irritation. Symptoms may include coughing, mucous production and shortness of breath.

FIRST AID: If overcome by exposure, victim should be removed to fresh air immediately. Give artificial respiration as needed. Get immediate medical attention.

INGESTION: Ingestion may cause irritation of the gastrointestinal tract and depression of the central nervous system leading to loss of consciousness.

FIRST AID: Do no induce vomiting. Immediately seek medical attention.

CHRONIC EFFECTS: Material or its emissions may defat skin, cause contact dermatitis and thereby aggravate existing skin or systemic diseases.

Carcinogenic: Contains saccharin which has been determined to cause cancer in laboratory animals.

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Component	Oral LD50	Dermal LD50	Inhalation LC50
Methacrylate monomer	not determined	not determined	not determined
Polyester resin	not determined	not determined	not determined
Saccharin	not determined	not determined	not determined
Cumene hydroperoxide	800-1600 mg/Kg (Rat)	Severe irritation (delayed)	700 ppm (rat)
Alkyl toluidine	not determined	not determined	not determined
Aromatic amine	not determined	not determined	not determined

SECTION VI - Control and Protective Measures

RESPIRATORY PROTECTION: Wear NIOSH/MOSHA approved respirator. Work in a well ventilated area.

PROTECTIVE GLOVES: Use rubber or vinyl.

EYE PROTECTION: Wear NIOSH approved safety glasses.

VENTILATION TO BE USED: LOCAL EXHAUST: **X** MECHANICAL: SPECIFIC: OTHER (specify):

PROTECTIVE CLOTHING AND EQUIPMENT: Wear impervious clothing to prevent repeated, prolonged skin contact.

HYGIENIC WORK PRACTICES: Practice good personal hygiene and wash hands after handling product.

SECTION VII - Precautions for Safe Handling and Spill/Leak Procedures

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Absorb loose material on inert filler and place in suitable container for proper disposal.

WASTE DISPOSAL METHODS: Dispose of material in accordance with local, state and federal regulations.

SAFE HANDLING AND STORAGE: Avoid prolonged skin contact. Store product in a cool dry place.

OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:

This material contains inhibitors which upon depletion can result in an excessive thermal reaction.

RECOMMENDED NFPA/HMIS RATING

HEALTH 2

FLAMMABILITY 1

REACTIVITY 1

PERSONAL PROTECTION C

note: ratings may differ according to application, environment, and physical state.

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NOTES:

DOT Proper Shipping Name

Not Regulated

SECTION 313 SUPPLIER NOTIFICATION

Detaching this notification from the Material Safety Data Sheet is prohibited by law and any copying or distribution of same requires this attachment be included.

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>% BY WEIGHT</u>
80-15-9	Cumene hydroperoxide	1.8%
107-21-1	Ethylene glycol	

This product contains the following materials that under California Proposition 65 of the Safe Drinking Water and Toxic Enforcement Act of 1986 are recognized to cause cancer or reproductive toxicity.

<u>Material</u>	<u>CAS #</u>	<u>Concentration %</u>	<u>Cancer Agent</u>	<u>Reproductive Toxin</u>	<u>cancer agent & Reproductive Toxin</u>
Ethylene glycol	107-21-1			X	

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