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

PRODUCT: 146500 (146) Stud Grade™ Permanent  
 MSDS ID: ND2022 Threadlocker/Sealant  
 ORIG. DATE: 10/31/96  
 REV. DATE: 5/18/04  
 REV. DATE: 5/31/07  
 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 |
|----------------------|------------|-------------|-----------|----------|-----------|--------------------------|
| Methacrylate monomer | NDA-09-332 | 25852-47-5  | 50-55     | n.e.     | n.e.      |                          |
| Polyester Resin      | NDA-09-152 | Proprietary | 30-50     | 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.      |                          |

The remaining components of this product are not considered hazardous substances or are below reportable levels under OSHA's Hazard Communication Standard (29 CFR 1910.1200)

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

**SECTION II -Physical and Chemical Characteristics**

|                             |  |           |                                 |
|-----------------------------|--|-----------|---------------------------------|
| <b>BOILING POINT:</b>       | > 200°C                                  |           | <b>VOC #/gal. :</b> 10%         |
| <b>VAPOR DENSITY:</b>       | n.e.                                     | air = 1   | <b>DENSITY OF COATING:</b> n.e. |
| <b>VAPOR PRESSURE:</b>      | n.e.                                     |           |                                 |
| <b>MELTING POINT:</b>       | n.a.                                     |           |                                 |
| <b>SPECIFIC GRAVITY:</b>    | > 1.0                                    | water = 1 |                                 |
| <b>EVAPORATION RATE:</b>    | n.a.                                     |           |                                 |
| <b>WATER REACTIVE:</b>      | No                                       |           |                                 |
| <b>SOLUBILITY IN WATER:</b> | Insoluble                                |           |                                 |
| <b>APPEARANCE AND ODOR:</b> | Red translucent liquid with cumene odor. |           |                                 |

**SECTION III - Fire and Explosion Hazard Data**

|  |  |                     |
|--|--|---------------------|
| <b>FLASH POINT:</b>                                  | > 160°C  | PMCC                |
| <b>AUTOIGNITION TEMPERATURE:</b>                     | not determined   |                     |
| <b>FLAMMABILITY LIMITS % IN AIR:</b>                 | LEL: not determined  | UEL: not determined |
| <b>EXTINGUISHER MEDIA:</b>                           | Use carbon dioxide, foam, dry chemical and/or water spray.   |                     |
| <b>SPECIAL FIREFIGHTING PROCEDURES:</b>              | 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. |                     |
| <b>UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID:</b> | Combustion of product may produce oxides of carbon.  |                     |



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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)   |

**SECTION VI - Control and Protective Measures**

**RESPIRATORY PROTECTION:** Dependent on use . 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, away from light.

**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 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 | 1.49               |

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 &amp; Reproductive Toxin</u> |
|-----------------|--------------|------------------------|---------------------|---------------------------|--|
|-----------------|--------------|------------------------|---------------------|---------------------------|--|

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