

ND INDUSTRIES, INC. 1893 BARRETT ROAD TROY, MICHIGAN 48084 (248) 288-0000 Fax: (248) 288-0022 24 hr. EMERGENCY CHEMTREC:

1-800-424-9300

PRODUCT: 542000 (542) Shaft & Bearing Retaining Compound

MSDS ID: **ND2111** ORIG. DATE: 5/13/98 REV. DATE: 6/2/04 REV. DATE: 6/28/07

PREPARED BY: Chemical Safety

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

COMPONENTS		CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Aliphatic urethane methacrylate blend	NDA-09-342	trade secret	40-50	n.e.	n.e.	
Dimethacrylate ester	NDA-09-235	27813-02-1	30-40	n.e.	n.e.	
Polyester resin	NDA-09-152	trade secret	10-20	n.e.	n.e.	
Cumene hydroperoxide	NDA-09-151	80-15-9	1-10	n.e.	n.e.	
Substituted silane	NDA-09-265	2530-85-0	1-10	n.e.	n.e.	

All ingredients are listed on the TSCA Inventory.

n.a.= not applicable / n.e.=not established

VOC #/gal.: 46.2%

DENSITY OF COATING:

SECTION II -Physical and Chemical Characteristics

>150°C **BOILING POINT:**

VAPOR DENSITY: >1 air = 1

<10 mmHg @ 25°C VAPOR PRESSURE:

MELTING POINT: n.a.

SPECIFIC GRAVITY: ~1.1 water = 1

EVAPORATION RATE: n.a. WATER REACTIVE: No **SOLUBILITY IN WATER:** slight

APPEARANCE AND ODOR: Green liquid with sharp odor.

SECTION III - Fire and Explosion Hazard Data

FLASH POINT: > 200°C T.C.C.

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.

Wear a NIOSH approved self-contained breathing apparatus operated in pressure-demand or other positive **SPECIAL**

pressure when fighting fires. Sealed containers may rupture explosively if exposed to heat. FIREFIGHTING

PROCEDURES:

UNUSUAL FIRE Combustion of product may produce oxides of carbon. **HAZARDS AND**

CONDITIONS TO AVOID:

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SECTION IV - Reactivity Hazard Data

STABILITY: stable: χ unstable:

HAZARDOUS POLYMERIZATION: may occur: will not occur: X

CONDITIONS Avoid storage over 100°F, contamination with incompatible materials.

TO AVOID:

INCOMPATIBILITY: Avoid contact with metal salts, heat, or amines.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

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.

Flush eyes with generous amounts of water for at least 15 minutes, lifting both upper and lower eyelids

FIRST AID: frequently. Get medical attention.

SKIN A primary route of exposure that may cause moderate skin irritation and allergic skin reaction. May cause rash,

CONTACT: redness, swelling and blistering (symptoms may be delayed)

Thoroughly wash exposed area with soap and water. If irritation develops, seek medical attention. Launder

FIRST AID: clothing before reuse.

INHALATION: Not a likely route of exposure.

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.

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

CHRONIC None known. EFFECTS:

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

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Component Oral LD50 Dermal LD50 Inhalation LC50

not determined not determined Polyester resin not determined not determined not determined Dimethacrylate ester not determined 220 ppm Rat Cumene hydroperoxide >200 mg/kg Rabbit 382 mg/Kg Rat not determined not determined Substituted silane not determined not determined not determined Aliphatic urethane methacrylate blend not determined

SECTION VI - Control and Protective Measures

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

PROTECTION:

PROTECTIVE Disposable polyethylene gloves with vinyl latex over gloves will give protection.

GLOVES:

EYE PROTECTION: Wear NIOSH approved safety glasses with side shields.

VENTILATION LOCAL EXHAUST: X MECHANICAL: SPECIFIC:

TO BE USED: OTHER (specify):

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

AND EQUIPMENT:

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

PRACTICES:

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

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Dike area to prevent spreading. Absorb with vermiculite, sand or other inert absorbing material.

WASTE DISPOSAL Dispose of as a chemical waste in accordance with current local, state, and federal regulations

METHODS:

SAFE HANDLING Avoid prolonged skin contact. Store product below 110°F to preserve shelf life.

AND STORAGE:

OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:

Avoid prolonged skin contact. Keep away from eyes.

RECOMMENDED HEALTH 2 FLAMMABILITY 1 REACTIVITY 1 PERSONAL B NFPA/HMIS

PROTECTION

PROTECTION

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

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NOTES:

Shipping Regulations:

DOT and IATA Hazard Classification: Non restricted Articles

Proper DOT Shipping Name: N/A

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:

CAS #	CHEMICAL NAME	% BY WEIGHT		
80-15-9	Cumene hydroperoxide	<3		
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.

Material	CAS#	Concentration %	Cancer Agent	Reproductive Toxin	cancer Reproductive agent Toxin
Aliphatic urethane methacrylate blend					Х
Ethylene glycol	107-21-1			Χ	

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