



MATERIAL SAFETY DATA SHEET

Prepared in accordance with ISO 11014-1/ ANSI standard
Z400.1-2004

Revision Date: 6/13/2012
MSDS No.: ND2111

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 542 High Strength Retaining Compound

Use of the Substance/Preparation: Retaining Compound

Supplier:

ND Industries, Inc.
1893 Barrett Drive
Troy, Michigan 48084
Tel: (248) 288-0000
Fax: 248) 288-0022
Website: www.ndindustries.com
E-mail: info@ndindustries.com

Emergency Telephone Number: 24 hr. EMERGENCY CHEMTREC 1-800-424-9300
24 hr. CHEMTREC INTERNATIONAL +1-703-527-3887

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Avoid contact with skin and eyes. May cause sensitization
CAUTION by skin contact. May cause respiratory irritation.

Principle Routes of Exposure: Skin and eyes.

POTENTIAL HEALTH EFFECTS:

Eye Contact: Causes eye irritation characterized by excessive tearing, redness, and blinking.

Skin Contact: Causes moderate skin irritation. May cause sensitization by skin contact.

Inhalation: Vapors generated at elevated temperatures may cause respiratory tract irritation.

Ingestion: Not expected to be a route of entry under normal industrial use conditions. May cause irritation of the gastrointestinal tract.

Carcinogenic Effects: No data available.

Target Organ Effects: No data available.

Medical Conditions Aggravated by Exposure: Skin conditions or diseases.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EINECS Number	Weight %	Risk Phrases
Ethoxylated bisphenol A dimethacrylate	24448-20-2	246-263-7	40-50	None
Hydroxypropyl methacrylate	27813-02-1	248-666-3	30-40	None

Bisphenol-A Fumarate Resin	39382-25-7	n/a	10-20	None
Silica	67762-90-7	n/a	1-5	None
Saccharin	81-07-2	201-321-0	1-5	None
Cumene hydroperoxide	80-15-9	201-254-7	1-3	Xi; R36/37

4. FIRST AID MEASURES

Skin Contact:	Thoroughly wash exposed area with soap and water. Flush with lukewarm water for at least 15 minutes. If irritation develops, seek medical attention. Launder contaminated clothing before reuse.
Eye Contact:	Flush eyes with generous amounts of water for 20-30 minutes, lifting both upper and lower eyelids occasionally. Get medical attention.
Inhalation:	If overcome by exposure, victim should be removed to fresh air immediately. Give artificial respiration as needed. Get immediate medical attention.
Ingestion:	Do not induce vomiting. Immediately seek medical attention.

5. FIRE AND IGNITION INFORMATION

Flash Point	>200°F
Explosion Limits in Air – Upper (%):	Not determined.
Explosion Limits in Air – Lower (%):	Not determined.
OSHA Flammability Classification:	Cumbustible.
Autoignition Temperature:	Not determined.
Extinguishing Media:	CO ₂ , Foam, Dry Chemical or Water Spray.
Special Protective Equipment for Firefighters:	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.
Hazardous Decomposition and/or Combustion Products:	Combustion yields oxides of carbon and possible toxic fumes.
Risk of Dust Explosion:	Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Only trained personnel should clean a spill. Avoid contact with skin and eyes. Use appropriate personal protective equipment when cleaning a chemical spill. Extinguish all ignition sources. Ventilate spill area.
Methods for Cleaning Up:	Absorb loose material on inert filler and place in suitable container for proper disposal.
Environmental Precautions:	Do not permit product to enter drains, sewers, rivers or other water courses. Dispose of material in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes. Wear appropriate personal protective equipment.
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Storage: Store product in a cool dry place, away from direct sunlight. Keep container tightly closed when not in use. Do not store for prolonged periods at temperatures below freezing or above 100°F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Exposure limits for those components with limits are stated below.

Silica: US OSHA PEL: 6 mg/m³
US ACGIH – TLV: 10 mg/m³ (Inhalable)

PEL: Permissible Exposure Limit
TLV: Threshold Limit Value
TWA: Time Weighted Average
US ACGIH: United States American Conference of Governmental Industrial Hygienists
US OSHA: United States Occupational Safety and Health Administration

ENGINEERING CONTROLS General ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Not necessary under normal use conditions.
Hand Protection: Wear appropriate chemical resistant gloves such as rubber or vinyl.
Eye Protection: Use NIOSH approved safety glasses. If eye contact due to splash hazard exists during use, wear chemical splash goggles.
Skin and Body Protection: Wear impervious clothing to prevent contact with skin.
Other: Wash hands after using and before eating, drinking, smoking, or using the lavatory.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green liquid
Odor:	Cumene odor
pH	Not determined
Vapor Pressure:	Not determined
Boiling Point/Range:	Not determined
Melting Point/Range:	Not determined
Water Solubility:	Insoluble
Specific Gravity:	1.09
VOC Content:	3.55 lbs/gal
Evaporation Rate:	Not determined
Viscosity:	Not determined
Partition Coefficient (n-octanol/water):	Not determined

10. STABILITY AND REACTIVITY

Stability: Stable.
Hazardous Polymerization: Will not occur.
Mechanical Sensitivity (shock): N/A
Conditions to Avoid: Avoid strong oxidizing agents. Storage temperatures below freezing or above 100°F.
Static Discharge Effects: Minimal.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral LD50:	No data available.	Carcinogenic Effects:	No data available.
Inhalation LC50:	No data available.	Mutagenic Effects:	No data available.
Dermal LC50:	No data available.	Reproductive Toxicity:	No data available.
Eye Irritation:	No data available.	Sensitizing Effects:	No data available.
Skin Irritation:	No data available.	Synergistic Materials:	No data available.

SUBCHRONIC TOXICITY

No data available.

12. ECOLOGICAL INFORMATION

Information given is based on data on the components and the toxicology of similar products.

Aquatic Toxicity: Not determined

ENVIRONMENTAL FATE

Mobility:	No data available.
Bioaccumulation:	No data available.
Persistence / Degradability:	No data available.
Distribution to Environmental Compartments:	No data available.

13. DISPOSAL CONSIDERATIONS

Disclaimer: Information in this section pertains to the product as shipped in its intended composition as described in Section 2 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

RCRA Classification (40 CFR 261): When this product is determined to be a waste, dispose of in accordance with all federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT shipping: Not regulated.

15. REGULATORY INFORMATION

Hazard Classification

United States – OSHA (29 CFR 1910.1200): This material is considered hazardous under OSHA.

International Inventories

All components of this product are listed on or exempt from the following inventories:

- (yes) - Australian Inventory of Chemical Substances (AICS)
- (yes) - Domestic Substances List (DSL)
- (yes) - Chinese Inventory
- (yes) - European Inventory of Existing Commercial Substances (EINECS)

- (yes) - Japanese Existing and New Chemical Substances (ENCS)
- (yes) - Korean Existing Chemicals List (KECL)
- (yes) - New Zealand Hazardous Substances and New Organisms Act (HSNO)
- (yes) - United States Toxic Substances Control Act (TSCA) Inventory

U.S. Federal Regulations

TSCA 12(b) Export Notification: None

Clean Air Act amendments of 1990 (CAA, Section 11240: CFR 82): Contains cumene hydroperoxide at <3%.

Clean Water Act (CWA, 40 CFR 116): None

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, 40 CFR 302): Cumene hydroperoxide, RQ: 10 pounds and saccharin, RQ: 100 pounds.

Superfund Amendments and Reauthorization Act, Title III (SARA):

SARA Section 302 (40 CFR 355) Extremely Hazardous Substances: No components of this product are listed as extremely hazardous chemicals under SARA section 302.

SARA Section 311/312 (40 CFR 370) Hazard Category: Acute, chronic.

SARA Section 313 (40 CFR 372) Toxics Release Inventory: Contains cumene hydroperoxide at <3%.

Hazard symbols: Xi; Irritant
Risk phrases: R36/37: Irritating to eyes and respiratory system

Safety phrases: S2: Keep out of reach of children
S24/25: Avoid contact with skin and eyes
S37/39 Wear suitable gloves and eye/face protection

U.S. State Regulations

California Proposition 65: This product contains or may contain chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

HMIS Index: *- chronic, 0 – Minimal, 1 – slight, 2- moderate, 3 – serious, 4 –severe

Health: 2

Flammability: 1

Physical Hazard: 1

Prepared by: ND Industries, Inc. – Safety, Health and Environmental Affairs
Revision Date: 6/13/2012
Previous Revision Date: 12/22/2008
Reasons for Revision: New 16 part format

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