SAFETY DATA SHEET

Prepared in accordance with OSHA HCS 2012

Revision Date: 8/15/2013
SDS No.: ND2011
Version: 3.1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 140 High Strength Threadlocker

Synonyms: 140

Use of the Substance/Preparation: Thread locking and sealing

Supplier:

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

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

2. HAZARDS IDENTIFICATION

Classification of Chemical in Accordance 29 CFR 1910.1200

Classification of Mixture
OSHA HCS 2012:
Irritant, Skin (Category 2)
Irritant, Eye (Category 2)

GHS Classification:
Irritant, Skin (Category 2)
Irritant, Eye (Category 2)

OSHA HCS 2012 / GHS Label Elements, including precautionary statements

Pictogram:

Signal word: **Warning**

Hazard Statement(s)
H315 - Causes skin irritation
H320 - Causes eye irritation

Precautionary Statement(s)
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P280 - Wear protective gloves, clothing, eye protection or face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	EINECS Number	Weight %	EU Classification
Polyglycol Dimethacrylate	25852-47-5	n/a	30-40	None
2-Hydroxyethyl methacrylate	868-77-9	212-782-2	20-30	Xi; R36/38, R43
Bisphenol-A Fumerate Resin	39382-25-7	n/a	20-30	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: Remove contaminated clothing. Flush affected area with soap and plenty of water for at least 15 minutes. If irritation develops or persists, seek medical attention.

Eye Contact: Flush eyes with warm water for at least 20 minutes. Hold eyelids apart to ensure complete irrigation of the eyes. Remove contact lenses. Seek immediate medical attention.

Inhalation: Move to fresh air. If breathing is difficult provide oxygen. If not breathing, immediately begin rescue breathing. If heart has stopped, provide cardiopulmonary resuscitation (CPR). Seek immediate medical attention.

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously, place head lower than knees, or, if unconscious, in rescue position. Seek immediate medical attention.

Notes to Physician: Maintain adequate ventilation and oxygenation of patient.

5. FIRE AND IGNITION INFORMATION

Flash Point >200°F

Explosion Limits in Air – Upper (%): Not established for the product itself.

Explosion Limits in Air – Lower (%): Not established for the product itself.

OSHA Flammability Classification: Combustible

Auto-ignition Temperature: Not established for the product itself.

Extinguishing Media: Dry chemical, carbon dioxide, foam or water spray

Special Protective Equipment for Firefighters: Fire fighters should wear full turn-out gear, including a NIOSH approved self-contained breathing apparatus operated in pressure-demand or other positive pressure when fighting fires.

Specific Hazards: Sealed containers may rupture if exposed to heat.

Hazardous Decomposition and/or Combustion Products: Oxides of carbon, smoke, fumes, unburned hydrocarbons, aldehydes, and cyanides.

Risk of Dust Explosion: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Only trained personnel should clean a spill. Ventilate spill area. Avoid breathing vapors, eye and skin contact. Wear appropriate personal protective equipment.

Methods for Cleaning Up: Evacuate non-emergency personnel. Isolate the area and prevent

access. Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Transfer to a waste container. The waste can then be dispose of in accordance with all applicable local, state, and federal regulations. Ensure adequate ventilation.

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Environmental Precautions: Do not allow spilled material onto or into soil, drains, sewer, rivers or other water courses.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid skin and eye contact. Wear appropriate personal protective equipment. Work in a well-ventilated area. Do not ingest. Safety showers and eyewash stations should be available for use in the immediate work area. Wash hands after using this product, and before eating, drinking smoking or using the lavatory.

Conditions for Safe Storage: Store in well ventilated, cool, dry location, away from direct sunlight. Keep containers tightly closed when not in use. Do not store for prolonged periods at temperatures below freezing or above 100°F.

Incompatible Materials: Oxidizing materials

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Exposure Limits for the Product itself have not been established.

Exposure limits for those components with limits are stated below.

Components of this product do not have any established exposure limits.

ENGINEERING CONTROLS: Use only with adequate ventilation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) stated above. The use of both general dilution and local exhaust ventilation is recommended to control airborne exposures to mist, vapor, or spray. Do not use in a confined area or areas with little or no air movement.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: When atmospheric levels may exceed the exposure guideline, use a NIOSH approved air-purifying respirator. Use a respirator that has been selected by an industrial hygienist or other technically qualified person for the specific work conditions. If respirators are used, OSHA requires compliance with its respirator program. For situations where atmospheric levels may exceed the level for which an air-purifying respirator is effective, use positive-pressure air-supplying respiratory (air-line or self-contained breathing apparatus).

Hand Protection: Use gloves chemically resistant to this material. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment.

Eye Protection: Wear safety glasses with side shields. Chemical safety goggles and

	face shield should be used if splash hazard exists. Eyewash fountain should be located in the immediate work area.
Skin and Body Protection:	Wear chemical resistant clothing suitable to the job. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment.
Other:	A hazard assessment should be performed before using this material to determine the appropriate personal protective equipment for the task. Safety shower and eyewash stations should be available in the immediate work area. Do not smoke, eat or drink while using this material. Wash hands after using this material, before eating, drinking, smoking or using the lavatory.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red Liquid
Odor:	Cumene like odor
pH	Not applicable
Odor Threshold:	Not established for the product itself.
Vapor Pressure:	Not established for the product itself.
Vapor Density:	Not established for the product itself.
Flash Point	>200°F
Explosion Limits in Air – Upper (%):	Not established for the product itself.
Explosion Limits in Air – Lower (%):	Not established for the product itself.
OSHA Flammability Classification:	Combustible
Auto-ignition Temperature:	Not established for the product itself.
Decomposition Temperature:	Not established for the product itself.
Initial Boiling Point /Range:	Not established for the product itself.
Melting Point:	Not established for the product itself.
Freezing Point:	Not established for the product itself.
Water Solubility:	Insoluble
Specific Gravity:	>1.0
Relative Density:	Not established for the product itself.
% Volatile (by Volume):	0.13 lbs/gal
Evaporation Rate:	Not established for the product itself.
Partition coefficient: n-octanol/water	Not established for the product itself.
Viscosity:	Not established for the product itself.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended conditions. See section 7.
Hazardous Polymerization:	Will not occur.
Mechanical Sensitivity (shock):	Not applicable.
Conditions to Avoid:	Avoid oxidizers. Storage temperatures below freezing or above 100°F.
Hazardous Decomposition and/or Combustion Products:	Oxides of carbon, smoke, fumes, unburned hydrocarbons, aldehydes, and cyanides.
	See section 5.

Static Discharge Effects: Minimal

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Ingestion, Skin Contact, Eye Contact

Signs and Symptoms of Exposure: Contact with the skin can be indicated by redness and/or irritation at the sight of exposure. Contact with the eye(s) is indicated by irritation, redness and watering of the eye(s). Ingestion is indicated by irritation of the mouth, nose, and throat, as well as gastro-intestinal discomfort.

Toxicological data has not been established for the product itself.

Components of this material that have associated toxicological data is provided below.

Acute Toxicity

Oral LD50:	No data available on the product itself.
Inhalation LC50:	No data available on the product itself.
Dermal LC50:	No data available on the product itself.

Serious Eye Damage/Eye Irritation: No data available on the product itself.

Skin Corrosion/ Irritation: No data available on the product itself.

Respiratory or Skin Sensitization: No data available on the product itself.

Germ Cell Mutagenicity: No data available on the product itself.

Carcinogenicity

ACGIH:	No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
IARC:	No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA:	No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: No data available on the product itself.

Teratogenicity: No data available on the product itself.

Specific Target Organ Toxicity – Single Exposure: No data available on the product itself.

Specific Target Organ Toxicity – Repeated Exposure: No data available on the product itself.

Aspiration Hazard: No data available on the product itself.

Synergistic Materials: No data available on the product itself.

12. ECOLOGICAL INFORMATION

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

Aquatic Toxicity: No data available on the product itself. However, Do not allow spilled material onto or into soil, drains, sewer, rivers or other water courses.

Environmental Fate:

Mobility:	No data available on the product itself.
Bioaccumulation:	No data available on the product itself.
Persistence/Degradability:	No data available on the product itself.
Distribution to Environmental Compartments:	No data available on the product itself.

13. DISPOSAL CONSIDERATIONS

Disposal:
Disposal of this product must be in accordance with all applicable local, state, and federal regulatory requirements. When disposing of waste materials contact and offer to only licensed professional waste disposal services. Do not dispose of used, unused, or wastes into sanitary sewage or storm water drains or systems.
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RCRA Classification (40 CFR 261):
Dispose of in accordance with all applicable local, state and federal regulatory requirements.

Unused and Uncontaminated Product:
Dispose of in accordance with all applicable local, state, and federal regulatory requirements.

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.

14. TRANSPORTATION INFORMATION

DOT: Not Regulated

UN Identification Number:	NA
Proper Shipping Name:	NA
Hazard Class:	NA
Packing Group:	NA
Marine Pollutant:	NA
Poison Inhalation Hazard:	NA

IATA: Not Regulated

UN Identification Number:	NA
Proper Shipping Name:	NA
Hazard Class:	NA

Packing Group: NA

IMDG: Not Regulated

UN Identification Number: NA
Proper Shipping Name: NA
Hazard Class: NA
Packing Group: NA
Marine Pollutant: NA

15. REGULATORY INFORMATION

Hazard Classification

OSHA HCS 2012: Hazardous

Irritant, Skin (Category 2)
Irritant, Eye (Category 2)

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 - Philippine Inventory of Chemicals and Chemical Substances (PICCS)
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): No

Component	CAS #	Amount
Cumene Hydroperoxide	80-15-9	<3%

Clean Water Act (CWA, 40 CFR 116): No Priority Pollutants

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, 40 CFR 302): Yes

Component	CAS #	RQ
Cumene Hydroperoxide	80-15-9	10 lbs.
Saccharin	81-07-2	100 lbs.

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

SARA Section 302 (40 CFR 355) Extremely Hazardous Substances: No

Component	CAS #	Amount

NA	NA	NA

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

SARA Section 313 (40 CFR 372) Toxics Release Inventory: Yes

Component	CAS #	Amount
Cumene Hydroperoxide	80-15-9	<3%

U.S. State Regulations

California Proposition 65: This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Component	CAS #	Amount
Cumene Hydroperoxide	80-15-9	<3%

16. OTHER INFORMATION

HMIS Rating

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

Health: **2**
Flammability: **1**
Physical Hazard: **0**

Additional Contacts:

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Glossary

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstract Service Number
Ceiling:	Absolute exposure limit that should not be exceeded at any time
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act
GHS:	Globally Harmonized System
HCS	U.S. Hazard Communications Standard
IARC:	International Agency for Research on Cancer
IATA:	International Air Transportation Association
IDLH:	Immediately Dangerous to Life and Health
IMDG:	International Maritime Dangerous Goods Code
DOT:	U.S. Department of Transportation
OSHA:	Occupational Safety and Health Administration
NTP:	U.S. National Toxicology Program
PEL:	Permissible Exposure Limit - An airborne concentration in which nearly all workers may be repeatedly exposed … without adverse health effects. Establish by US OSHA
ppm:	Parts per million
RCRA:	Resource Conservation and Recovery Act

SARA:	Superfund Amendments and Reauthorization Act
STEL:	Short Term Exposure Limit - One time exposure for a duration of 15 minutes, that cannot be repeated more than 4 times per day
TSCA:	Toxic Substances Control Act
TLV:	Threshold Limit Value - An airborne concentration in which nearly all workers may be repeatedly exposed … without adverse health effects. Established by US ACGIH
TWA:	Time Weighted Average - Average exposure on the basis of a 8h/day, 40h/week work schedule

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