

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b> Nuts N' Bolts® 428	<b>Product Type:</b> Anaerobic
<b>Company :</b> Hernon Manufacturing, Inc. 121 Tech Drive Sanford, FL 32771	<b>Contact Information:</b> Telephone: 407-322-4000 Emergency Telephone: 800-255-3924 Web Site: www.hernonmfg.com

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Aromatic Dimethacrylate Ester	70-80	None	None	None
Maleimide Resin	10-20	None	None	None
Hydroxyalkyl Methacrylate	1-5	None	None	None
Cumene Hydroperoxide	1-5	None	None	1 ppm (6 mg/m³) Skin (WEEL)
Saccharin	1-5	None	None	None
Silica, Fumed	1-5	6 mg/m³TWA	10 mg/m³ TWA	3 mg/m³TWA respirable
1-Acetyl-2-phenylhydrazine	0.1-1	None	None	None

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Physical state: Liquid  
Color: Red  
Odor: Mild

**HMIS:**  
HEALTH: 2  
FLAMMABILITY: 1  
PHYSICAL HAZARD: 1  
Personal Protection: See Section 8

**WARNING:** MAY CAUSE EYE, AND SKIN IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

**Primary Routes of Entry:** Skin, Inhalation, Eyes

### Signs and Symptoms of Exposure:

<b>Inhalation:</b>	May cause respiratory tract irritation.
<b>Skin contact:</b>	May cause allergic skin reaction. May cause skin irritation.
<b>Eye contact:</b>	Contact with eyes will cause irritation.
<b>Ingestion:</b>	May be harmful if swallowed.

**Existing Conditions Aggravated by Exposure:** Eye, skin, and respiratory disorders.

4. FIRST AID MEASURES	
Ingestion:	Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation:	Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
Eye Contact:	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
5. FIRE FIGHTING MEASURES	
Flash Point (TCC):	> 200°F
Recommended Extinguishing Agents:	Carbon dioxide, foam, dry chemical
Special Firefighting Procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Hazardous Combustion Products:	Oxides of carbon. Oxides of nitrogen. Irritating organic vapors.
Unusual Fire or Explosion Hazards:	None
Flammable/Explosive Limits – lower %:	Not available
Flammable/Explosive Limits – upper %:	Not available
6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Wear proper protective equipment
Measures for Environmental Protection:	Do not allow entry into drains or surface waters
Clean-up Measures:	Soak up with an inert absorbent. Store in partly filled, closed container until disposal.
7. HANDLING AND STORAGE	
Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.
Storage:	Store between 46° and 82°F unless otherwise labeled to preserve shelf life.
8. EXPOSURE CONTROLS, PERSONAL PROTECTION	
Eye/Face Protection:	Safety glasses or goggles with side shields
Skin Protection:	Use rubber or plastic gloves, and protective clothing as necessary
Respiratory Protection:	Use NIOSH approved respirator if there is a potential to exceed exposure limits
Engineering Controls:	Forced ventilation may be required if concentrations exceed exposure limits

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Red
Odor:	Mild
Vapor Pressure:	Less than 5 mm at 80°F
Vapor Density:	Not available
Solubility in Water:	Slight
Specific Gravity:	1.14
Boiling Point:	> 300°F
Volatile Organic Compound Content	12%
Evaporation Rate (Ether = 1)	Not available
pH:	Does not apply

## 10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	Oxides of carbon. Oxides of nitrogen. Irritating organic vapors.
Incompatibility:	Reducing agents. Strong oxidizers.

## 11. TOXICOLOGICAL INFORMATION

Ingredients:	Literature Referenced Target Organ and Other Health Effects					Carcinogen Status		
						NTP	IARC	OSHA
Aromatic Dimethacrylate Ester	ALG	IRR				NO	NO	NO
Maleimide Resin	NTD					NO	NO	NO
Hydroxyalkyl Methacrylate	ALG	IRR				NO	NO	NO
Cumene Hydroperoxide	ALG	CNS	COR	IRR	MUT	NO	NO	NO
Saccharin	NTD					NO	NO	NO
Silica, Fumed	NTD					NO	NO	NO
1-Acetyl-2-phenylhydrazine	ALG	BLO	MUT	KID	SOM	NO	NO	NO

### Abbreviations:

<b>ALG</b>	Allergen	<b>BLO</b>	Blood	<b>COR</b>	Corrosive	<b>CNS</b>	Central Nervous System	<b>NTD</b>	No Target Organs
<b>MUT</b>	Mutagen	<b>KID</b>	Kidney	<b>IRR</b>	Irritant	<b>SOM</b>	Some evidence of carcinogenicity		

## 12. ECOLOGICAL INFORMATION

Water Hazard:	Do not allow entry into drains or surface waters
---------------	--

## 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Dispose of according to Federal, State and Local regulations.  
EPA Hazardous Waste Number: Not an RCRA hazardous waste

## 14. TRANSPORTATION INFORMATION

### U.S. Dept. of Transportation Ground (49 CFR):

Proper Shipping Name Unrestricted  
Hazard Class or Division: None  
Identification Number None  
Packing group: None

### International Air Transportation (ICAO/IATA):

Proper Shipping Name: Unrestricted  
Hazard Class or Division: None  
Identification Number None  
Packing group: None

### Water Transportation (IMO/IMDG):

Proper Shipping Name: Unrestricted  
Hazard Class or Division: None  
Identification Number None  
Packing group: None  
Marine pollutant: None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory  
CERCLA/SARA 313: 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 (40 CFR 372): Cumene Hydroperoxide  
California Proposition 65: This product contains trace quantities of a chemical (or chemicals) known to the state of California to cause cancer, birth defects, and/or other reproductive harm.

## 16. OTHER INFORMATION

Prepared By: Jerry Litteral  
Title: Director - Quality & Development

**DISCLAIMER:** Some of the information presented is from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.