

Issue Date 26-Jun-2015

Revision Date 06-Oct-2017

Version 1

**1. IDENTIFICATION****Product identifier****Product Name** Nuts N' Bolts 220**Other means of identification****Product Code** MS-220**UN/ID no.** None**Synonyms** None**Recommended use of the chemical and restrictions on use****Recommended Use** Adhesives.**Uses advised against** None known**Details of the supplier of the safety data sheet****Manufacturer Address**Hernon Manufacturing Inc.  
121 Tech Drive  
Sanford, FL 32771  
800-527-0004**Emergency telephone number****Company Phone Number** 407-322-4000**Emergency Telephone** Chemtrec 1-800-424-9300**2. HAZARDS IDENTIFICATION****Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |             |
|--|-------------|
| Acute toxicity - Oral                              | Category 4  |
| Acute toxicity - Dermal                            | Category 4  |
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 3  |
| Skin corrosion/irritation                          | Category 2  |
| Serious eye damage/eye irritation                  | Category 2A |
| Skin sensitization                                 | Category 1  |
| Carcinogenicity                                    | Category 2  |
| Specific target organ toxicity (repeated exposure) | Category 2  |
| Flammable liquids                                  | Category 4  |

**Label elements****Emergency Overview****Danger****Hazard statements**Harmful if swallowed  
Harmful in contact with skin  
Toxic if inhaled  
Causes skin irritation  
Causes serious eye irritation

May cause an allergic skin reaction  
 Suspected of causing cancer  
 May cause damage to organs through prolonged or repeated exposure  
 Combustible liquid



**Appearance** No information available

**Physical state** Liquid

**Odor** Mild

#### **Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Use only outdoors or in a well-ventilated area  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves  
 Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of soap and water  
 Call a POISON CENTER or doctor/physician if you feel unwell  
 Take off contaminated clothing and wash before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Other Information**

Harmful to aquatic life with long lasting effects  
 Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

| Chemical Name                      | CAS No.    | Weight-% | Trade Secret |
|------------------------------------|------------|----------|--------------|
| POLYETHYLENE GLYCOL DIMETHACRYLATE | 25852-47-5 | 60 - 100 | *            |
| Hydroxypropyl Methacrylate         | 27813-02-1 | 1 - 5    | *            |
| Cumene Hydroperoxide               | 80-15-9    | 1 - 5    | *            |
| N,N-DIMETHYL-P-TOLUIDINE           | 99-97-8    | 0.1 - 1  | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of first aid measures

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.   |
| <b>Skin contact</b> | Wash with soap and water. Flush skin with water for several minutes. Remove contaminated clothing and shoes. If irritation develops, seek medical attention. Wash clothing before reuse. |
| <b>Inhalation</b>   | Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.                                   |
| <b>Ingestion</b>    | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.  |

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Unsuitable extinguishing media** None.

#### Specific hazards arising from the chemical

No information available.

**Hazardous combustion products** Carbon oxides. Nitrogen oxides (NO<sub>x</sub>). Irritating organic vapors.

#### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                                 |   |
|---------------------------------|---|
| <b>Personal precautions</b>     | Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. |
| <b>For emergency responders</b> | Use personal protection recommended in Section 8.   |

### Environmental precautions

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional ecological information. |
|----------------------------------|---|

### Methods and material for containment and cleaning up

|                                |  |
|--------------------------------|--|
| <b>Methods for containment</b> | Prevent further leakage or spillage if safe to do so.  |
| <b>Methods for cleaning up</b> | Soak up with inert absorbent material. Store in a closed container until ready for disposal. |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                                |  |
|--------------------------------|--|
| <b>Advice on safe handling</b> | Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Ensure adequate ventilation, especially in confined areas. |
|--------------------------------|--|

### Conditions for safe storage, including any incompatibilities

|                               |   |
|-------------------------------|---|
| <b>Storage Conditions</b>     | Keep at temperatures between 7 and 29 °C. |
| <b>Incompatible materials</b> | Reducing agents. Strong oxidizers.        |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

|                            |   |
|----------------------------|---|
| <b>Exposure Guidelines</b> | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|----------------------------|---|

### Appropriate engineering controls

|                             |   |
|-----------------------------|---|
| <b>Engineering Controls</b> | Showers<br>Eyewash stations<br>Ventilation systems. |
|-----------------------------|---|

### Individual protection measures, such as personal protective equipment

|                                       |   |
|---------------------------------------|---|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles).   |
| <b>Skin and body protection</b>       | Wear protective gloves and protective clothing. Use rubber or plastic gloves.   |
| <b>Respiratory protection</b>         | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| <b>General Hygiene Considerations</b> | Handle in accordance with good industrial hygiene and safety practice.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   | <b>Odor</b>           | Mild                     |
| <b>Appearance</b>     | No information available | <b>Odor threshold</b> | No information available |
| <b>Color</b>          | Green                    |                       |                          |

| <u>Property</u>                       | <u>Values</u>            | <u>Remarks • Method</u> |
|---------------------------------------|--------------------------|-------------------------|
| <b>pH</b>                             | Does not apply           |                         |
| <b>Melting point / freezing point</b> | No information available |                         |
| <b>Boiling point / boiling range</b>  | > 149 °C / 300 °F        |                         |
| <b>Flash point</b>                    | > 93 °C / 200 °F         |                         |
| <b>Evaporation rate</b>               | No information available |                         |
| <b>Flammability (solid, gas)</b>      | No information available |                         |
| <b>Flammability Limit in Air</b>      |                          |                         |
| <b>Upper flammability limit:</b>      | No information available |                         |
| <b>Lower flammability limit:</b>      | No information available |                         |
| <b>Vapor pressure</b>                 | < 5 mm at 80°F           |                         |
| <b>Vapor density</b>                  | No information available |                         |
| <b>Relative density</b>               | 1.06                     |                         |
| <b>Water solubility</b>               | Slightly soluble         |                         |
| <b>Solubility in other solvents</b>   | No information available |                         |
| <b>Partition coefficient</b>          | No information available |                         |
| <b>Autoignition temperature</b>       | No information available |                         |
| <b>Decomposition temperature</b>      | No information available |                         |
| <b>Kinematic viscosity</b>            | No information available |                         |
| <b>Dynamic viscosity</b>              | No information available |                         |
| <b>Explosive properties</b>           | No information available |                         |
| <b>Oxidizing properties</b>           | No information available |                         |

### Other Information

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |
| <b>Density</b>          | No information available |
| <b>Bulk density</b>     | No information available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Incompatible materials.

### Incompatible materials

Reducing agents. Strong oxidizers.

### Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Irritating organic vapors.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                    |
|---------------------|--------------------|
| <b>Inhalation</b>   | No data available. |
| <b>Eye contact</b>  | No data available. |
| <b>Skin contact</b> | No data available. |
| <b>Ingestion</b>    | No data available. |

| Chemical Name                            | Oral LD50             | Dermal LD50              | Inhalation LC50                      |
|--|-----------------------|--------------------------|--------------------------------------|
| Hydroxypropyl Methacrylate<br>27813-02-1 | = 11200 mg/kg ( Rat ) | > 3000 mg/kg ( Rabbit )  | -                                    |
| Cumene Hydroperoxide<br>80-15-9          | = 382 mg/kg ( Rat )   | = 0.126 mL/kg ( Rabbit ) | = 220 ppm ( Rat ) 4 h                |
| N,N-DIMETHYL-P-TOLUIDINE<br>99-97-8      | = 1650 mg/kg ( Rat )  | > 2000 mg/kg ( Rabbit )  | = 1400 mg/m <sup>3</sup> ( Rat ) 4 h |

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

#### Carcinogenicity

| Chemical Name                       | ACGIH | IARC     | NTP | OSHA |
|-------------------------------------|-------|----------|-----|------|
| N,N-DIMETHYL-P-TOLUIDINE<br>99-97-8 | -     | Group 2B | -   | X    |

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

|                                      |                |
|--------------------------------------|----------------|
| <b>ATEmix (oral)</b>                 | 553.00 mg/kg   |
| <b>ATEmix (dermal)</b>               | 1,593.00 mg/kg |
| <b>ATEmix (inhalation-dust/mist)</b> | 0.73 mg/l      |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects

| Chemical Name                            | Algae/aquatic plants | Fish   | Crustacea                       |
|--|----------------------|--|---------------------------------|
| Hydroxypropyl Methacrylate<br>27813-02-1 | -                    | 493: 48 h Leuciscus idus melanotus<br>mg/L LC50 static | -                               |
| Cumene Hydroperoxide<br>80-15-9          | -                    | 3.9: 96 h Oncorhynchus mykiss<br>mg/L LC50 static      | 7: 24 h Daphnia magna mg/L EC50 |

|                                     |   |  |   |
|-------------------------------------|---|--|---|
| Insoluble Saccharin<br>81-07-2      | - | 18300: 96 h Pimephales promelas mg/L LC50  | - |
| N,N-DIMETHYL-P-TOLUIDINE<br>99-97-8 | - | 42 - 50.5: 96 h Pimephales promelas mg/L LC50 flow-through   | - |
| METHANOL<br>67-56-1                 | - | 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through | - |

**Persistence and degradability**

No information available.

**Bioaccumulation**

| Chemical Name                            | Partition coefficient |
|--|-----------------------|
| Hydroxypropyl Methacrylate<br>27813-02-1 | 0.97                  |
| N,N-DIMETHYL-P-TOLUIDINE<br>99-97-8      | 2.81                  |

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Do not reuse container.

| Chemical Name                   | RCRA | RCRA - Basis for Listing          | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---------------------------------|------|-----------------------------------|------------------------|------------------------|
| Cumene Hydroperoxide<br>80-15-9 | -    | -                                 | -                      | U096                   |
| METHANOL<br>67-56-1             | -    | Included in waste stream:<br>F039 | -                      | U154                   |
| NAPHTHOQUINONE<br>130-15-4      | U166 | Included in waste stream:<br>K024 | -                      | U166                   |

| Chemical Name                   | California Hazardous Waste Status |
|---------------------------------|-----------------------------------|
| Cumene Hydroperoxide<br>80-15-9 | Toxic<br>Ignitable                |

**14. TRANSPORT INFORMATION**

**DOT**

UN/ID no. Not regulated  
 Proper shipping name None  
 Hazard Class Not regulated  
 Packing Group None  
 Special Provisions None

|                      |               |
|----------------------|---------------|
| <b>IATA</b>          | Not regulated |
| UN/ID no.            | None          |
| Proper shipping name | Not regulated |
| Hazard Class         | None          |
| Packing Group        | None          |
| Special Provisions   | None          |

|                      |               |
|----------------------|---------------|
| <b>IMDG</b>          | Not regulated |
| UN/ID no.            | None          |
| Proper shipping name | Not regulated |
| Hazard Class         | None          |
| Packing Group        | None          |
| Special Provisions   | None          |

## 15. REGULATORY INFORMATION

### International Inventories

|               |          |
|---------------|----------|
| TSCA          | Complies |
| DSL/NDSL      | Complies |
| EINECS/ELINCS | Complies |
| ENCS          | Complies |
| IECSC         | Complies |
| KECL          | Complies |
| PICCS         | Complies |
| AICS          | Complies |

All ingredients are on the inventory or are exempt from listing.

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                  | SARA 313 - Threshold Values % |
|--------------------------------|-------------------------------|
| Cumene Hydroperoxide - 80-15-9 | 1.0                           |

#### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | Yes |

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)



**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name                   | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                 |
|---------------------------------|--------------------------|----------------|--|
| Cumene Hydroperoxide<br>80-15-9 | 10 lb                    | -              | RQ 10 lb final RQ<br>RQ 4.54 kg final RQ |

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals

| Chemical Name                      | California Proposition 65 |
|------------------------------------|---------------------------|
| N,N-DIMETHYL-P-TOLUIDINE - 99-97-8 | Carcinogen                |
| METHANOL - 67-56-1                 | Developmental             |

**U.S. State Right-to-Know Regulations**

| Chemical Name                   | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------|------------|---------------|--------------|
| Cumene Hydroperoxide<br>80-15-9 | X          | X             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|                    |                  |                |                    |                                    |
|--------------------|------------------|----------------|--------------------|------------------------------------|
| <b><u>NFPA</u></b> | Health hazards - | Flammability - | Instability -      | Physical and Chemical Properties - |
| <b><u>HMIS</u></b> | Health hazards - | Flammability - | Physical hazards - | Personal protection -              |

|               |                          |
|---------------|--------------------------|
| Prepared By   | SDS coordinator          |
| Issue Date    | 26-Jun-2015              |
| Revision Date | 06-Oct-2017              |
| Revision Note | No information available |

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**