

SAFETY DATA SHEET

# Nuts N' Bolts 223

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

*Trade name:* Nuts N' Bolts 223  
*Product no.:* MS-223

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Adhesive  
Restricted to professional users.  
*Uses advised against :* None known.

### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **Hernon Manufacturing Inc**  
121 Tech Drive  
FL 32771 Sanford  
USA  
T: +1-407-322-4000  
www.hernon.com

*Contact person:* Hernon SDS Coordinator  
*E-mail:* customerservice@hernon.com  
*SDS date:* 7/23/2024  
*SDS Version:* 1.0

### 1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webpoisoncontrol (triage.webpoisoncontrol.org) to get specific guidance for your case.

VelocityEHS:  
+1-800-255-3924 (USA)  
+1-813-248-0585 (International)  
1-300-954-583 (Australia)  
0-800-591-6042 (Brazil)  
400-120-0751 (China)  
000-800-100-4086 (India)  
800-099-0731 (Mexico)  
Contract #: (MIS0002665)

## SECTION 2: HAZARD(S) IDENTIFICATION

### OSHA/HCS status

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

### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.  
Skin Sens. 1; H317, May cause an allergic skin reaction.  
Eye Irrit. 2; H319, Causes serious eye irritation.  
STOT SE 3; H335, May cause respiratory irritation.  
Carc. 1B; H350, May cause cancer.  
Repr. 2; H361, Suspected of damaging fertility or the unborn child.  
STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

## 2.2. Label elements

*Hazard pictogram(s):*



*Signal word:*

Danger

*Hazard statement(s):*

Causes skin irritation. (H315)  
May cause an allergic skin reaction. (H317)  
Causes serious eye irritation. (H319)  
May cause respiratory irritation. (H335)  
May cause cancer. (H350)  
Suspected of damaging fertility or the unborn child. (H361)  
May cause damage to organs through prolonged or repeated exposure. (H373)

*Precautionary statement(s):*

*General:*

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*Prevention:*

Obtain special instructions before use. (P201)  
Do not breathe vapour/mist. (P260)  
Wash hands thoroughly after handling. (P264)  
Contaminated work clothing should not be allowed out of the workplace. (P272)  
Wear eye protection/protective clothing. (P280)

*Response:*

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)  
IF exposed or concerned: Get medical advice/attention. (P308+P313)  
Call a POISON CENTER/doctor if you feel unwell. (P312)  
Get medical advice/attention if you feel unwell. (P314)  
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)  
If eye irritation persists: Get medical advice/attention. (P337+P313)  
Take off contaminated clothing and wash it before reuse. (P362+P364)

*Storage:*

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

*Disposal:*

Dispose of contents/container in accordance with local regulation (P501)

*Additional labelling:*

Restricted to professional users.

## 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

| Product/substance                  | Identifiers         | % w/w  | Classification   | Note |
|------------------------------------|---------------------|--------|--|------|
| Polyethylene Glycol Dimethacrylate | CAS No.: 25852-47-5 | 30-60% | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Irrit. 2, H319<br>STOT SE 3, H335   |      |
| Hydroxypropyl Methacrylate         | CAS No.: 27813-02-1 | 1-5%   | Skin Sens. 1, H317<br>Eye Irrit. 2, H319   |      |
| Cumene hydroperoxide               | CAS No.: 80-15-9    | 1-5%   | Org. Perox. E, H242<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Corr. 1B, H314 (SCL: 10.00 %)<br>Skin Irrit. 2, H315 (SCL: 3.00 %)<br>Eye Dam. 1, H318<br>Acute Tox. 3, H331<br>STOT SE 3, H336<br>STOT RE 2, H373 |      |
| N,N-dimethyl-m-toluidine           | CAS No.: 99-97-8    | 0.1-1% | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Skin Sens. 1, H317<br>Acute Tox. 2, H330<br>Carc. 1B, H350<br>Repr. 2, H361<br>STOT RE 2, H373   |      |
| Cumene                             | CAS No.: 98-82-8    | <1%    | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H335<br>Carc. 1B, H350   |      |

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

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## SECTION 4: FIRST-AID MEASURES

### 4.1. Description of first aid measures

|                             |  |
|-----------------------------|--|
| <i>General information:</i> | If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).<br>Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.   |
| <i>Inhalation:</i>          | Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.   |
| <i>Skin contact:</i>        | Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.<br>If skin irritation occurs: Get medical advice/attention.  |
| <i>Eye contact:</i>         | If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.   |
| <i>Ingestion:</i>           | If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.<br>In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material. |
| <i>Burns:</i>               | Not applicable.  |

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

IF exposed or concerned:  
Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.  
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

## **5.2. Special hazards arising from the substance or mixture**

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Sulphur oxides

Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides (CO / CO<sub>2</sub>)

## **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

### **6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

### **6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### **6.4. Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Store locked up. A sign warning of toxic materials shall be affixed the room and cupboard containing the product(s).

Containers that have been opened must be carefully resealed and kept upright to prevent

leakage.

*Recommended storage material:* Always store in containers of the same material as the original container.

*Storage temperature:* Keep at temperatures between 7 and 29 °C.

*Incompatible materials:* Reducing agents  
Strong oxidizing agents

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Cumene

Long term exposure limit (OSHA Table Z-1) (mg/m<sup>3</sup>): 245

Long term exposure limit (OSHA Table Z-1) (ppm): 50

Long term exposure limit (ACGIH TLV) (ppm): 50

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

### 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:* Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:* There are no exposure scenarios implemented for this product.

*Exposure limits:* Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:* Do not recirculate outlet air that contain the substances. The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:* Take off contaminated clothing and wash it before reuse.

*Measures to avoid environmental exposure:* Keep damming materials near the workplace. If possible, collect spillage during work.

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


*Generally:* Use only protective equipment with a recognized certification mark, e.g. the UL mark.

*Respiratory Equipment:*

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.


*Skin protection:*

| Recommended | Type/Category       | Standards |   |
|-------------|---------------------|-----------|---|
| -           | Protective Clothing |           |  |

*Hand protection:*

Nitrile Rubber

*Eye protection:*

| Type                              | Standards |   |
|-----------------------------------|-----------|---|
| Safety glasses with side shields. | EN166     |  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|                                    |  |
|------------------------------------|--|
| <i>Physical state:</i>             | Liquid   |
| <i>Colour:</i>                     | Red  |
| <i>Odour:</i>                      | Mild   |
| <i>Odour threshold (ppm):</i>      | Not applicable   |
| <i>pH:</i>                         | Testing not relevant or not possible due to the nature of the product. |
| <i>Density (g/cm<sup>3</sup>):</i> | 1.1  |
| <i>Relative density:</i>           | No data available  |
| <i>Kinematic viscosity:</i>        | No data available  |
| <i>Particle characteristics:</i>   | No data available  |

#### Phase changes

|  |                            |
|--|----------------------------|
| <i>Melting point (°F):</i>             | No data available          |
| <i>Softening point/range (°F):</i>     | Does not apply to liquids. |
| <i>Boiling point (°F):</i>             | >300                       |
| <i>Boiling point (°C):</i>             | >149                       |
| <i>Vapour pressure:</i>                | <5.0 mmHg                  |
| <i>Relative vapour density:</i>        | No data available          |
| <i>Decomposition temperature (°F):</i> | No data available          |

#### Data on fire and explosion hazards

|                           |                   |
|---------------------------|-------------------|
| <i>Flash point (°F):</i>  | >200              |
| <i>Flash point (°C):</i>  | >93.3             |
| <i>Flammability (°F):</i> | No data available |

*Auto-ignition temperature (°F):* No data available

*Explosion limits (% v/v):* No data available

## Solubility

*Solubility in water:* Slightly soluble

*n-octanol/water coefficient (LogKow):* No data available

*Solubility in fat (g/L):* No data available

## 9.2. Other information

*Evaporation rate (n-butylacetate = 100):* No data available

*Other physical and chemical parameters:* No data available.

*Oxidizing properties:* No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Incompatible Materials

### 10.5. Incompatible materials

Reducing agents

Strong oxidizing agents

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity



Based on available data, the classification criteria are not met.

**Carcinogenicity**

May cause cancer.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Long term effects**

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**Other information**

N,N-dimethyl-m-toluidine has been classified by IARC as a group 2B carcinogen.

Cumene has been classified by IARC as a group 2B carcinogen.

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## **SECTION 12: ECOLOGICAL INFORMATION**

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**12.1. Toxicity**

No data available.

**12.2. Persistence and degradability**

Based on available data, the classification criteria are not met.

**12.3. Bioaccumulative potential**

Based on available data, the classification criteria are not met.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. Other adverse effects**

None known.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

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**RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)**

Cumene hydroperoxide is listed with EPA Hazardous Waste Number: U096

Cumene is listed with EPA Hazardous Waste Number: U055

**Specific labelling**

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: TRANSPORT INFORMATION

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es) | 14.4<br>PG* | 14.5<br>Env** | Other<br>information: |
|------|-----------------|---------------------------------|--------------------------|-------------|---------------|-----------------------|
| DOT  | -               | -                               | -                        | -           | -             | -                     |
| IMDG | -               | -                               | -                        | -           | -             | -                     |
| IATA | -               | -                               | -                        | -           | -             | -                     |

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to DOT, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. U.S. Federal regulations

*TSCA (the non-confidential portion):*

Polyethylene Glycol Dimethacrylate is listed  
Hydroxypropyl Methacrylate is listed  
Cumene hydroperoxide is listed  
N,N-dimethyl-m-toluidine is listed  
Cumene is listed

*Clean Air Act:*

Cumene is regulated as a hazardous air pollutant (HAPS)

*EPCRA Section 302:*

None of the components are listed

*EPCRA Section 304:*

None of the components are listed

*EPCRA section 313:*

Cumene hydroperoxide is listed  
Cumene is listed

*CERCLA:*

Cumene hydroperoxide is regulated with a Reportable Quantity (RQ) of: 10 pounds  
Cumene is regulated with a Reportable Quantity (RQ) of: 5000 pounds

### State regulations

*California / Prop. 65:*

N,N-dimethyl-m-toluidine is known to cause: Cancer

—  
Cumene is known to cause: Cancer

*Massachusetts / Right To Know Act:*

—  
Cumene hydroperoxide is listed

|  |  |
|--|--|
| <i>New Jersey / Right To Know Act:</i>   | Cumene is listed<br>Cumene hydroperoxide / Substance number: 0543<br>Cumene hydroperoxide is on the Special Health Hazard Substance List   |
|  | —<br>Cumene / Substance number: 0542<br>Cumene is on the Special Health Hazard Substance List  |
| <i>New York / Right To Know Act:</i>     | Cumene hydroperoxide is listed<br>Cumene hydroperoxide is regulated with a Reportable Quantity (RQ) of: 10 pounds<br>Cumene hydroperoxide is regulated with a Treshold Reporting Quantity (TRQ) of: 0 pounds |
|  | —<br>Cumene is listed<br>Cumene is regulated with a Reportable Quantity (RQ) of: 5000 pounds<br>Cumene is regulated with a Treshold Reporting Quantity (TRQ) of: 100 pounds                                  |
| <i>Pennsylvania / Right To Know Act:</i> | Cumene hydroperoxide is listed<br>Cumene hydroperoxide is hazardous to the environment (E)   |
|  | —<br>Cumene is listed<br>Cumene is hazardous to the environment (E)  |
|  | —  |

**15.4. Restrictions for application**

Restricted to professional users.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

**15.5. Demands for specific education**

No specific requirements.

**15.6. Additional information**

Not applicable.

**15.7. Chemical safety assessment**

No

**15.8. Sources**

OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: OTHER INFORMATION

**Full text of H-phrases as mentioned in section 3**

H226, Flammable liquid and vapour.

H242, Heating may cause a fire.

H301, Toxic if swallowed.

H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.  
H311, Toxic in contact with skin.  
H312, Harmful in contact with skin.  
H314, Causes severe skin burns and eye damage.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H318, Causes serious eye damage.  
H319, Causes serious eye irritation.  
H330, Fatal if inhaled.  
H331, Toxic if inhaled.  
H335, May cause respiratory irritation.  
H336, May cause drowsiness or dizziness.  
H350, May cause cancer.  
H361, Suspected of damaging fertility or the unborn child.  
H373, May cause damage to organs through prolonged or repeated exposure.

### **The full text of identified uses as mentioned in section 1**

None known.

### **Abbreviations and acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists  
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CERCLA = Comprehensive Environmental Response Compensation and Liability Act  
DOT = Department of Transportation  
EINECS = European Inventory of Existing Commercial chemical Substances  
EPCRA = Emergency Planning and Community Right-To-Know Act  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HCIS = Hazardous Chemical Information System  
HNOC = Hazards Not Otherwise Classified  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NFPA = National Fire Protection Association  
NIOSH = National Institute for Occupational Safety and Health  
OECD = Organisation for Economic Co-operation and Development  
OSHA = Occupational Safety and Health Administration  
PBT = Persistent, Bioaccumulative and Toxic  
RCRA = Resource Conservation and Recovery Act  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SARA = Superfund Amendments and Reauthorization Act  
SCL = A specific concentration limit.  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

### **Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

### **The safety data sheet is validated by**

SDS Coordinator

### **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en