

Issue Date 26-Jun-2015

Revision Date 01-May-2017

Version 1

1. IDENTIFICATION

Product identifier

Product Name Nuts N' Bolt 429

Other means of identification

Product Code MS-429

UN/ID no. None

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Anaerobic Adhesive.

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 Chemtel 800-255-3924

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

Label elements

Emergency Overview

Warning

Hazard statements

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure
Combustible liquid

**Appearance** No information available**Physical state** Liquid**Odor** Mild**Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area
 Wash face, hands and any exposed skin thoroughly after handling
 Contaminated work clothing must not be allowed out of the workplace
 Do not breathe dust/fume/gas/mist/vapors/spray
 Keep away from flames and hot surfaces. - No smoking
 Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)
 Get medical advice/attention if you feel unwell
 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 water and soap
 Take off contaminated clothing and wash it before reuse
 If skin irritation or rash occurs: Get medical advice/attention
 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 Call a POISON CENTER or doctor if you feel unwell
 In case of fire: Use CO₂, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful if swallowed
 May be harmful in contact with skin
 Toxic to aquatic life with long lasting effects
 Toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|--|------------|----------|--------------|
| Unsaturated Polyester Resin | 39382-25-7 | 15 - 40 | * |
| POLYETHYLENE GLYCOL DIMETHACRYLATE | 25852-47-5 | 15 - 40 | * |
| Hydroxypropyl Methacrylate | 27813-02-1 | 10 - 30 | * |
| Ethoxylated Bisphenol A Dimethacrylate | 41637-38-1 | 3 - 7 | * |
| Cumene hydroperoxide | 80-15-9 | 1 - 5 | * |
| Saccharin | 81-07-2 | 1 - 5 | * |
| Maleic acid | 110-16-7 | 0.1 - 1 | * |
| METHANOL | 67-56-1 | 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

| | |
|---------------------|--|
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | 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. |
| Inhalation | Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately. |
| Ingestion | 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

Use CO₂, dry chemical, or foam.

Unsuitable extinguishing media None.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Nitrogen oxides (NO_x). Carbon oxides. 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

| | |
|---------------------------------|--|
| Personal precautions | Wear protective gloves/protective clothing and eye/face protection. Use personal protective equipment as required. |
| For emergency responders | Use personal protection recommended in Section 8. |

Environmental precautions

Environmental precautions 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

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on safe handling 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

Storage Conditions Keep at temperatures between 7 and 29 °C.

Incompatible materials Reducing agent. Strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------|-------------------------------------|--|--|
| METHANOL 67-56-1 | STEL: 250 ppm TWA: 200 ppm S* | TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m ³ (vacated) S* | IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³ |

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing. Use rubber or plastic gloves.

Respiratory protection 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.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | | | |
|-----------------------|--------------------------|-----------------------|--------------------------|
| Physical state | Liquid | Odor | Mild |
| Appearance | No information available | Odor threshold | No information available |
| Color | Red | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH | Does not apply | |
| Melting point / freezing point | No information available | |
| Boiling point / boiling range | > 149 °C / 300 °F | |
| Flash point | > 93 °C / 200 °F | |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability limit: | No information available | |
| Lower flammability limit: | No information available | |
| Vapor pressure | < 5 mm @80 °F | |
| Vapor density | No information available | |
| Relative density | 1.11 | |
| Water solubility | slightly soluble | |
| Solubility in other solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition temperature | No information available | |
| Decomposition temperature | No information available | |
| Kinematic viscosity | No information available | |
| Dynamic viscosity | No information available | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |

Other Information

| | |
|------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | 0.41%; 4.4 g/L |
| Density | No information available |
| Bulk density | 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

No information available.

Incompatible materials

Reducing agent. Strong oxidizers.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

| | |
|-------------|--|
| Inhalation | May cause irritation of respiratory tract. |
| Eye contact | Avoid contact with eyes. |

Skin contact Avoid contact with skin.

Ingestion May be harmful if swallowed.

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|-----------------------|--------------------------|---|
| Hydroxypropyl Methacrylate 27813-02-1 | = 11200 mg/kg (Rat) | > 3000 mg/kg (Rabbit) | - |
| Cumene hydroperoxide 80-15-9 | = 382 mg/kg (Rat) | = 0.126 mL/kg (Rabbit) | = 220 ppm (Rat) 4 h |
| Maleic acid 110-16-7 | = 708 mg/kg (Rat) | = 1560 mg/kg (Rabbit) | > 720 mg/m ³ (Rat) 1 h |
| METHANOL 67-56-1 | = 6200 mg/kg (Rat) | = 15800 mg/kg (Rabbit) | = 22500 ppm (Rat) 8 h = 64000 ppm (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 |
|----------------------|-------|---------|-----|------|
| Saccharin 81-07-2 | - | Group 3 | - | - |

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure Irritant.

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.

ATEmix (oral) 3,167.00 mg/kg

ATEmix (dermal) 2,970.00 mg/kg

ATEmix (inhalation-dust/mist) 1.31 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|--|----------------------|---|--|
| Hydroxypropyl Methacrylate 27813-02-1 | - | 493: 48 h Leuciscus idus melanotus mg/L LC50 static | - |
| Cumene hydroperoxide 80-15-9 | - | 3.9: 96 h Oncorhynchus mykiss mg/L LC50 static | 7: 24 h Daphnia magna mg/L EC50 |
| Saccharin 81-07-2 | - | 18300: 96 h Pimephales promelas mg/L LC50 | - |
| Maleic acid 110-16-7 | - | 5: 96 h Pimephales promelas mg/L LC50 static | 250 - 400: 48 h Daphnia magna mg/L EC50 |
| METHANOL 67-56-1 | - | 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 28200: 96 h Pimephales promelas mg/L LC50 | - |

| | | | |
|--|---|--|-----------------------------------|
| | | flow-through 100: 96 h Pimephales promelas mg/L LC50 static | |
| Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-octadecyl ester 2082-79-3 | 30: 72 h Desmodemus subspicatus mg/L EC50 | 100: 96 h Lepomis macrochirus mg/L LC50 100: 96 h Lepomis macrochirus mg/L LC50 static | 100: 24 h Daphnia magna mg/L EC50 |

Persistence and degradability

No information available.

Bioaccumulation

| Chemical Name | Partition coefficient |
|--|-----------------------|
| Hydroxypropyl Methacrylate 27813-02-1 | 0.97 |
| Maleic acid 110-16-7 | -0.79 - 0.32 |
| METHANOL 67-56-1 | -0.77 |

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 80-15-9 | - | - | - | U096 |
| METHANOL 67-56-1 | - | Included in waste stream: F039 | - | U154 |
| NAPHTHOQUINONE 130-15-4 | U166 | Included in waste stream: K024 | - | U166 |

| Chemical Name | California Hazardous Waste Status |
|---------------------------------|-----------------------------------|
| Cumene hydroperoxide 80-15-9 | Toxic Ignitable |
| METHANOL 67-56-1 | Toxic Ignitable |

14. TRANSPORT INFORMATION**DOT**

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

IATA

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

| | |
|-----------------------------|---------------|
| IMDG | 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 |
| Saccharin - 81-07-2 | 1.0 |
| METHANOL - 67-56-1 | 1.0 |

SARA 311/312 Hazard Categories

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

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Maleic acid 110-16-7 | 5000 lb | - | - | X |

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 80-15-9 | 10 lb | - | RQ 10 lb final RQ RQ 4.54 kg final RQ |
| Maleic acid 110-16-7 | 5000 lb | - | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| METHANOL 67-56-1 | 5000 lb | - | RQ 5000 lb final RQ RQ 2270 kg final RQ |

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals

| Chemical Name | California Proposition 65 |
|--------------------|---------------------------|
| METHANOL - 67-56-1 | Developmental |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------|------------|---------------|--------------|
| Cumene hydroperoxide 80-15-9 | X | X | X |
| Saccharin 81-07-2 | X | X | X |
| Maleic acid 110-16-7 | X | X | X |
| METHANOL 67-56-1 | 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

| | | | | |
|--------------------|-------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 0 | Flammability 0 | Instability 0 | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 2* | Flammability 1 | Physical hazards 2 | Personal protection X |

Prepared By SDS coordinator
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 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