HERNON®
MANUFACTURING, INC.

# SAFETY DATA SHEET

**Issue Date** 19-Aug-2015 **Revision Date** 02-Dec-2020 **Version** 1

## 1. IDENTIFICATION

**Product identifier**

**Product Name** Cylinlock 822

**Other means of identification**

**Product Code** MS-822
**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 - Oral | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 2 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Flammable liquids | Category 4 |

**Label elements**

**Emergency Overview**

**Danger**

**Hazard statements**
Harmful if swallowed
Fatal 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**
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection
Contaminated work clothing must not be allowed out of the workplace
Keep away from flames and hot surfaces. - No smoking
Wear protective gloves/eye protection/face protection
Keep cool

**Precautionary Statements - Response**
Specific treatment is urgent (see supplemental first aid instructions on this label)
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
Immediately call a POISON CENTER or doctor
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth
In case of fire: Use CO2, dry chemical, or foam to extinguish

**Precautionary Statements - Storage**
Store in a well-ventilated place. Keep container tightly closed
Store locked up

**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 in contact with skin
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 | 30 - 60 | * |
| Hydroxypropyl Methacrylate | 27813-02-1 | 10 - 30 | * |

| | | | |
|---|---|---|---|
| Unsaturated Polyester Resin | 39382-25-7 | 10 - 30 | * |
| Cumene Hydroperoxide | 80-15-9 | 1 - 5 | * |
| Insoluble Saccharin | 81-07-2 | 1 - 5 | * |
| Maleic Acid 99.5% assay | 110-16-7 | 0.1 - 1 | * |
| ACETYL 2 PHENYLHYDRAZINE | 114-83-0 | 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** No information available.

**Specific hazards arising from the chemical**
No information available.

**Hazardous combustion products** Carbon oxides. Nitrogen oxides (NOx). 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** Ensure adequate ventilation, especially in confined areas.

**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 agents. Strong oxidizers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** .

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| METHANOL<br>67-56-1 | STEL: 250 ppm<br>TWA: 200 ppm<br>S* | TWA: 200 ppm<br>TWA: 260 mg/m$^3$<br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 260 mg/m$^3$<br>(vacated) STEL: 250 ppm<br>(vacated) STEL: 325 mg/m$^3$<br>(vacated) S* | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m$^3$<br>STEL: 250 ppm<br>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 | | |
| **Appearance** | No information available | **Odor** | Mild |
| **Color** | Green | **Odor threshold** | No information available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | Does not apply | |
| **Melting point / freezing point** | No information available | |
| **Boiling point / boiling range** | > 150 °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** | < 5mm at 80°F | |
| **Vapor density** | No information available | |
| **Relative density** | 1.07 | |
| **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 (%)** | No information available |
| **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**
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**

**Inhalation** No data available.

**Eye contact** No data available.

**Skin contact** No data available.

**Ingestion** No data available.

| 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 99.5% assay 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 |
|---|---|---|---|---|
| Insoluble Saccharin 81-07-2 | - | Group 3 | - | - |

**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.**

**ATEmix (oral)** 1,611.00 mg/kg
**ATEmix (dermal)** 4,100.00 mg/kg
**ATEmix (inhalation-dust/mist)** 0.41 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful 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 |
| Insoluble Saccharin | - | 18300: 96 h Pimephales promelas | - |

| | | | |
|---|---|---|---|
| 81-07-2 | | mg/L LC50 | |
| Maleic Acid 99.5% assay<br>110-16-7 | - | 5: 96 h Pimephales promelas mg/L LC50 static | 250 - 400: 48 h Daphnia magna mg/L EC50 |
| METHANOL<br>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 | - |

**Persistence and degradability**
No information available.

**Bioaccumulation**

| Chemical Name | Partition coefficient |
|---|---|
| Hydroxypropyl Methacrylate<br>27813-02-1 | 0.97 |
| Maleic Acid 99.5% assay<br>110-16-7 | -0.79 - 0.32 |
| METHANOL<br>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<br>80-15-9 | - | - | - | U096 |
| METHANOL<br>67-56-1 | - | Included in waste stream: F039 | - | U154 |
| NAPHTHOQUINONE<br>130-15-4 | U166 | Included in waste stream: K024 | - | U166 |

| Chemical Name | California Hazardous Waste Status |
|---|---|
| Cumene Hydroperoxide<br>80-15-9 | Toxic<br>Ignitable |
| METHANOL<br>67-56-1 | Toxic<br>Ignitable |

## 14. TRANSPORT INFORMATION

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

**IATA** Not regulated
- **UN/ID no.** None
- **Proper shipping name** Not regulated
- **Hazard Class** None
- **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

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

**ADR** 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 |

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

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute health hazard** | - |
| **Chronic Health Hazard** | - |
| **Fire hazard** | - |
| **Sudden release of pressure hazard** | - |
| **Reactive Hazard** | - |

**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 99.5% assay 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<br>RQ 4.54 kg final RQ |
| Maleic Acid 99.5% assay 110-16-7 | 5000 lb | - | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| METHANOL 67-56-1 | 5000 lb | - | RQ 5000 lb final RQ<br>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 |
| Maleic Acid 99.5% assay 110-16-7 | X | X | X |
| Insoluble Saccharin 81-07-2 | 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

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health hazards** - | **Flammability** - | **Instability** - | **Physical and Chemical Properties** - |
| **HMIS** | **Health hazards** - | **Flammability** - | **Physical hazards** - | **Personal protection** - |

**Prepared By** SDS coordinator
**Issue Date** 19-Aug-2015

| | |
|---|---|
| **Revision Date** | 02-Dec-2020 |
| **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**