

SAFETY DATA SHEET

Issue Date 26-Jun-2015

Revision Date 19-Aug-2015

Version 1

1. IDENTIFICATION

Product identifier

Product Name

Nuts N' Bolts 427

Other means of identification

Product Code UN/ID no.

Synonyms

MS-427

None 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 - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 4

Label elements

Emergency Overview

Danger

Hazard statements

Causes skin irritation

Causes serious eye damage

May cause damage to organs through prolonged or repeated exposure

Combustible liquid

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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

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Precautionary Statements - Response

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

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

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 you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

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

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
POLYETHYLENE GLYCOL DIMETHACRYLATE	25852-47-5	30 - 60	*
Unsaturated Polyester Resin	39382-25-7	10 - 30	*
Hydroxypropyl Methacrylate	27813-02-1	1 - 5	*
Cumene Hydroperoxide	80-15-9	1 - 5	*
BENZOQUINONE	106-51-4	0.1 - 1	*
ACETYL 2 PHENYLHYDRAZINE	114-83-0	0.1 - 1	*

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

4. FIRST AID MEASURES

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Odor m

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2). Dry chemical. Foam.

Unsuitable extinguishing media None.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Nitrogen oxides (NOx). 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.

Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water.

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 Remove all sources of ignition. Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust). Store in a dry place. Store in a closed container.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Avoid breathing

vapors or mists. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep at temperatures between 46° and 82 °F.

Incompatible materials Strong oxidizing agents. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
BENZOQUINONE	TWA: 0.1 ppm	TWA: 0.1 ppm	IDLH: 100 mg/m ³
106-51-4		TWA: 0.4 mg/m ³	TWA: 0.1 ppm
po 1999 April 5		(vacated) TWA: 0.1 ppm	TWA: 0.4 mg/m ³
		(vacated) TWA: 0.4 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

ColorredOdor thresholdNo information available

<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 1.08 @ 75°F Water solubility slightly soluble

Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available No information available Decomposition temperature 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 (%) 4.2 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

Excessive heat. Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong reducing agents.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful by inhalation and in contact with skin

Inhalation Avoid breathing vapors or mists.

Eye contact Contact with eyes may cause irritation.

Skin contact Irritating to skin. May cause skin irritation and/or dermatitis.

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
BENZOQUINONE	= 130 mg/kg (Rat)) -	=

106-51-4

Information on toxicological effects

Symptoms

No information available.

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

Sensitization
Germ cell mutagenicity
Carcinogenicity

No information available. No information available. No information available

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Chemical Name	ACGIH	IARC	NTP	OSHA
BENZOQUINONE 106-51-4	-	Group 3	-	=

Reproductive toxicity STOT - single exposure

No information available. No information available.

STOT - single 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)
 751.00

 ATEmix (dermal)
 1,637.00

 ATEmix (inhalation-dust/mist)
 1.02

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Cumene Hydroperoxide 80-15-9	-0	3.9: 96 h Oncorhynchus mykiss mg/L LC50 static	7: 24 h Daphnia magna mg/L EC50
Hydroxypropyl Methacrylate 27813-02-1	_	493: 48 h Leuciscus idus melanotus mg/L LC50 static	2 7
BENZOQUINONE 106-51-4	-	0.045: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	0 4 *

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
Hydroxypropyl Methacrylate 27813-02-1	0.97

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	-	-	-	U096

80-15-9				
BENZOQUINONE	U197	•	_	U197
106-51-4	985005000011		1000	0197

Chemical Name	California Hazardous Waste Status
Cumene Hydroperoxide	Toxic
80-15-9	Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard Class None Subsidiary class None **Packing Group** None Reportable Quantity (RQ) None **Special Provisions** None Marine pollutant No.

IATA Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard Class None Subsidiary hazard class None **Packing Group** None **ERG Code** None **Special Provisions** None Description None

IMDG Not regulated

UN/ID no. None

Proper shipping name Not regulated **Hazard Class** None

Subsidiary hazard class None **Packing Group** None EmS-No. None **Special Provisions** None

RID Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard Class None **Packing Group** None Classification code None **Special Provisions** None

ADR Not regulated UN/ID no.

None

Proper shipping name Not regulated **Hazard Class** None **Packing Group** None Classification code None

Tunnel restriction code 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 does not contain any 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	
BENZOQUINONE - 106-51-4	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 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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Cumene Hydroperoxide	10 lb	-	RQ 10 lb final RQ
80-15-9			RQ 4.54 kg final RQ
BENZOQUINONE	10 lb		RQ 10 lb final RQ
106-51-4			RQ 4.54 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Cumene Hydroperoxide 80-15-9	X	X	X
BENZOQUINONE 106-51-4	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 0

Flammability 0

Instability 0

Physical and Chemical

HMIS

Health hazards 2

Flammability 1

Physical hazards 1

Properties -Personal protection X

Prepared By

SDS coordinator

Issue Date Revision Date 26-Jun-2015

Revision Note

19-Aug-2015

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