

# SAFETY DATA SHEET

US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 23-Jan-2019 Revision Date 24-Jul-2023 Revision Number 2

### 1. Identification

**Product identifier** 

Product Name TLR-2 High Strength Threadlocker

Other means of identification

Product Code(s) TLR-2

Synonyms TLR-2

Recommended use of the chemical and restrictions on use

Recommended use Lock threaded assemblies

Restrictions on use None known

Details of the supplier of the safety data sheet

### **Supplier Address**

Park Tool Company 5115 Hadley Avenue N St Paul, MN 55128 +1 651-777-6868

Emergency telephone number

Emergency telephone CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

1-800-424-9300 (NORTH AMERICA)

## 2. Hazard(s) identification

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

#### **Danger**

### **Hazard statements**

Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.



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

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing, eye protection and face protection.

Wash face, hands and any exposed skin thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Do not breathe vapor or mist.

Use only outdoors or in a well-ventilated area.

### **Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label). IF exposed or concerned: Get medical advice/attention.

### **Eyes**

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.

#### Skin

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 and attention.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### **Precautionary Statements - Storage**

Store locked up.

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

### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant.

### Other information

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

## 3. Composition/information on ingredients

### Substance

Not applicable.

## <u>Mixture</u>

### Synonyms TLR-2

Chemical name	CAS No	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
Polyethylene glycol methacrylate	25852-47-5	30-39	-	-
Bisphenol-A Fumarate Resin	39382-25-7	20-29	-	-
2-Hydroxyethyl methacrylate	868-77-9	20-29	-	-

Ethoxylated Bisphenol A Dimethacrylate Esters	41637-38-1	5-9	-	-
Sodium saccharin	128-44-9	1-4	-	-
Propylene glycol	57-55-6	1-4	-	-
Modified Epoxy Acrylate Oligomer	-	1-4	-	-
Cumene hydroperoxide	80-15-9	1-4	-	-
Cumene	98-82-8	<=1	-	-
Acetic acid, 2-phenylhydrazide	114-83-0	<=1	-	-

### 4. First-aid measures

### **Description of first aid measures**

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in

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

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or

concerned: Get medical advice/attention.

**Eye contact** Get immediate medical attention. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Keep eye wide open while rinsing. Do not rub affected area.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an

allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation. Itching. Rashes. Hives.

**Effects of Exposure** May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

### 5. Fire-fighting measures

**Suitable Extinguishing Media** CO2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable extinguishing media Water.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

**Explosion data** 

**Sensitivity to mechanical impact** None. **Sensitivity to static discharge** None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from

Revision Date: 24-Jul-2023

and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

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 Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

## 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

Do not breathe vapor or mist.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children.

## 8. Exposure controls/personal protection

### Control parameters

### **Exposure Limits**

Chemical name	ACGIH TLV		OSH	A PEL		NIOSH
Cumene	TWA: 5 ppm		TWA: 50 ppm			IDLH: 900 ppm
98-82-8			TWA: 2	45 mg/m <sup>3</sup>		TWA: 50 ppm
				WA: 50 ppm		TWA: 245 mg/m <sup>3</sup>
				/A: 245 mg/m <sup>3</sup>		
			(vaca	ted) S*		
			;	S*		
Chemical name	Alberta	Britis	h Columbia	Ontario		Quebec
Propylene glycol	-		-	TWA: 10 mg	/m³	-
57-55-6				TWA: 50 pp	m	
				TWA: 155 mg	g/m³	
Cumene	TWA: 50 ppm	TW	A: 25 ppm	TWA: 50 pp	m	TWA: 50 ppm
98-82-8	TWA: 246 mg/m <sup>3</sup>	STE	L: 75 ppm			TWA: 246 mg/m <sup>3</sup>

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Cumene	TWA: 5 ppm	TWA: 50 ppm	TWA: 5 ppm	TWA: 5 ppm

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Cumene	TWA: 50 ppm STEL: 74 ppm	TWA: 5 ppm	TWA: 50 ppm STEL: 74 ppm	TWA: 50 ppm TWA: 245 mg/m³ STEL: 75 ppm

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
				STEL: 365 mg/m <sup>3</sup>
				Skin

#### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

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

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection**Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** Avoid release to the environment.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state Liquid Color Red

**Odor** Characteristic

Odor threshold No information available

PropertyValuesRemarks • MethodpHNo data available

Melting point / freezing point No data available

Initial boiling point and boiling range195 °C / 383 °F Flash point 94 °C / 201.2 °F

Evaporation rate

No data available
Flammability

No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure ≤ 1.3 hPa (≤ 1 mm Hg) @ 68 °C

Relative vapor density
Relative density
No data available
No data available

Water solubility Immiscible in water

Solubility(ies)No data availablePartition coefficientNo data availableAutoignition temperatureNo data availableDecomposition temperatureNo data available

Kinematic viscosity

No data available

Dynamic viscosity

No data available

Other information

Explosive properties
Oxidizing properties
No information available.
No information available.
No information available.
No information available
No information available

VOC content 1.59

**VOC**  $\sim 17.5 \text{ g/l} / \sim 0.15 \text{ lb/gal}$  **Liquid Density** No information available

**Bulk density** ~ 1.1 g/cm³ (~ 9.1795 lbs/gal) @20°C

## 10. Stability and reactivity

**Reactivity** None under normal use conditions.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

Conditions to avoid None known based on information supplied.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products Aldehydes, Hydrocarbons.

### 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye damage.

May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Causes skin irritation. May

cause sensitization by skin contact. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May be harmful in contact

with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and

tearing of the eyes.

Acute toxicity .

**Numerical measures of toxicity** 

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

ATEmix (oral) > 2,000 mg/kg

 $\begin{array}{lll} \textbf{ATEmix (dermal)} & > 2,000 & \text{mg/kg} \\ \textbf{ATEmix (inhalation-vapor)} & > 20 & \text{mg/l} \\ \textbf{ATEmix (inhalation-dust/mist)} & > 10 & \text{mg/l} \\ \end{array}$ 

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-Hydroxyethyl methacrylate	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Sodium saccharin	= 1280 mg/kg (Rat)	-	-
Propylene glycol	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	•
Cumene hydroperoxide	= 382 mg/kg (Rat)	= 0.126 mL/kg ( Rabbit )	= 220 ppm (Rat) 4 h
Cumene	= 1400 mg/kg (Rat)	= 12300 μL/kg (Rabbit)	> 3577 ppm (Rat) 6 h

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious eye

damage.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium saccharin 128-44-9	-	Group 3	-	-
Cumene 98-82-8	А3	Group 2B	Reasonably Anticipated	Х

#### Legend

#### **ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

### IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

### NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

### OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity No information available.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

## 12. Ecological information

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2-Hydroxyethyl methacrylate 868-77-9	-	LC50: 213 - 242mg/L (96h, Pimephales promelas) LC50: =227mg/L (96h, Pimephales promelas)	-	-
Sodium saccharin 128-44-9	-	LC50: 16400 - 20400mg/L (96h, Pimephales promelas)	-	-
Propylene glycol 57-55-6	EC50: =19000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =51600mg/L (96h, Oncorhynchus mykiss) LC50: 41 - 47mL/L (96h, Oncorhynchus mykiss) LC50: =51400mg/L (96h, Pimephales promelas) LC50: =710mg/L (96h, Pimephales promelas)	-	EC50: >1000mg/L (48h, Daphnia magna)
Cumene hydroperoxide 80-15-9	-	LC50: =3.9mg/L (96h, Oncorhynchus mykiss)	-	-
Cumene 98-82-8	EC50: =2.6mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 6.04 - 6.61mg/L (96h, Pimephales promelas) LC50: =4.8mg/L (96h, Oncorhynchus mykiss) LC50: =2.7mg/L (96h, Oncorhynchus mykiss) LC50: =5.1mg/L (96h, Poecilia reticulata)	-	EC50: =0.6mg/L (48h, Daphnia magna) EC50: 7.9 - 14.1mg/L (48h, Daphnia magna)

Persistence and degradability

No information available.

### **Bioaccumulation**

**Component Information** 

Chemical name	Partition coefficient
2-Hydroxyethyl methacrylate 868-77-9	0.42
Ethoxylated Bisphenol A Dimethacrylate Esters 41637-38-1	5.62
Sodium saccharin 128-44-9	-2.227
Propylene glycol 57-55-6	-1.07
Cumene hydroperoxide 80-15-9	1.6
Cumene 98-82-8	3.55

Other adverse effects

No information available.

# 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations, Dispose of waste in accordance with

Revision Date: 24-Jul-2023

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

California waste information This product contains one or more substances that are listed with the State of California as

a hazardous waste.

## 14. Transport information

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

## 15. Regulatory information

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

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### **International Inventories**

Contact supplier for inventory compliance status

#### **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
Cumene - 98-82-8	0.1

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **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	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Cumene hydroperoxide	10 lb	-	RQ 10 lb final RQ
80-15-9			RQ 4.54 kg final RQ
Cumene	5000 lb	-	RQ 5000 lb final RQ
98-82-8			RQ 2270 kg final RQ

#### **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical name		California Proposition 65	
	Cumene - 98-82-8	Carcinogen	

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Propylene glycol 57-55-6	Χ	-	Х
Cumene hydroperoxide 80-15-9	Х	X	Х
Sodium saccharin 128-44-9	-	X	Х
Cumene 98-82-8	X	X	X

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

### 16. Other information

NFPA Health hazards 3 Flammability 1 Instability 0 Special hazards -Health hazards 3 \* Flammability 1 Physical hazards 0 **HMIS** Personal protection X Chronic Hazard Star Legend \* = Chronic Health Hazard

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Skin designation

### Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note** Change in the mixture classification.

**Disclaimer** 

The information provided in this 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**