

SAFETY DATA SHEET

PACER
TECHNOLOGY
INDUSTRIAL • PRIVATE LABEL



Date Prepared : 05/26/2015

MSDS No : Z-42-GHS

Date-Revised : 09/26/2016

Revision No : 4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: Z-42 THREADLOCKER (PT42)

MANUFACTURER

Pacer Technology
3281 E. Guasti Rd., Suite 260
Ontario, CA 91761

Emergency Contact: CHEMTREC

Emergency Phone: 800-424-9300

Alternate Emergency Phone: 703-527-3887

Product Stewardship: 909-987-0550

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2
Eye Irritation, Category 2
Skin Sensitization, Category 1
Target Organ Toxicity (Single exposure), Category 3

Environmental:

Aquatic, Chronic 3

GHS LABEL ELEMENTS



Exclamation
mark



Health
hazard

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H412: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash skin and hands thoroughly after handling.

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P270: Do not eat, drink or smoke when using this product.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P362: Take off contaminated clothing.
 P363: Wash contaminated clothing before reuse.

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P405: Store locked up.
 P411 + P235 : Store at temperatures not exceeding 38C/100F. Keep cool.

Disposal:

P501: Dispose of in a manner consistent with federal, state, and local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Methacrylate monomer	60 - 70	25852-47-5
Hydroxypropyl methacrylate	≥ 12.94	27813-02-1
Ethylene glycol	< 5	107-21-1
2-Butenedioic acid	< 5	110-16-7
Quinone	< 5	106-51-4
2,6-di-tert-butyl-p-cresol	< 5	128-37-0
Cumene Hydroperoxide	< 3	80-15-9
Titanium dioxide	0.215 - 0.2425	13463-67-7
Cumene	0.02 - 0.155	98-82-8

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

INGESTION: If swallowed, do not induce vomiting. Keep individual calm. Get medical attention and show container label.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical

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attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes eye irritation.

SKIN: Causes skin irritation. Allergic reactions are possible.

SKIN ABSORPTION: Remove contaminated clothing and wash affected areas with soap and water. Prolonged or repeated contact can cause dermatitis in sensitive individuals. Contact a physician if irritation persists.

INGESTION: Slight to very low toxicity.

INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.

ACUTE EFFECTS: Irritating to skin. May cause allergic skin reaction with prolonged contact.

CHRONIC EFFECTS: Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not Flammable

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition.

EXPLOSION HAZARDS: None known.

FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus and protective clothing.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

FIRE EXPLOSION: None known.

SENSITIVE TO STATIC DISCHARGE: None known.

SENSITIVITY TO IMPACT: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid and place in sealed container for disposal.

LARGE SPILL: Contain spill with dike to prevent entry into sewers. Absorb liquid and place in sealed container for disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.

LAND SPILL: None known.

AIR SPILL: None known.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

HANDLING: Avoid contact with skin and eyes. Wash thoroughly after handling.

STORAGE: Store in a cool place in original container and protect from sunlight. Keep away from sources of ignition.

STORAGE TEMPERATURE: Suggested storage conditions: Less than 77F/25C. Protect from freezing.

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LOADING TEMPERATURE: Not Established
LOADING/UNLOADING VISCOSITY: Not Established
STORAGE PRESSURE: Not Established
ELECTROSTATIC ACCUMULATION HAZARD: Not Established

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m ³
Ethylene glycol	ACGIH TLV	TWA	[1]	100 [1]
2-Butenedioic acid	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Quinone	OSHA PEL	TWA	0.1	0.4
	ACGIH TLV	TWA	0.1	0.44
2,6-di-tert-butyl-p-cresol	ACGIH TLV	TWA		2
Cumene Hydroperoxide	OSHA PEL	TWA	50	245
Titanium dioxide	OSHA PEL	TWA	[2]	10 [2]
	ACGIH TLV	TWA	[2]	10 [2]
	Supplier OEL	TWA	NL [3]	NL [3]
		STEL	NL	NL
Cumene	OSHA PEL	TWA	50	245
	ACGIH TLV	TWA	50	246

OSHA TABLE COMMENTS:

1. Aerosol only
2. * = Total dust, ^ = Respirable fraction
3. NL = Not Listed

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Vinyl or rubber gloves.

RESPIRATORY: This material does not have established exposure limits. Wear a positive pressure air-supplied respirator in situations where there may be potential for airborne exposure.

PROTECTIVE CLOTHING: Not Applicable.

WORK HYGIENIC PRACTICES: Wash thoroughly after handling.

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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid**ODOR:** Mild odor.**ODOR THRESHOLD:** Not Established**APPEARANCE:** Blue liquid.**COLOR:** Blue.**pH:** No data available**PERCENT VOLATILE:** No data available**FLASHPOINT AND METHOD:** > 93°C (200°F)**FLAMMABLE LIMITS:** Not data available**AUTOIGNITION TEMPERATURE:** No data available**VAPOR PRESSURE:** < 6.67 mbar at 27°C (80°F)**VAPOR DENSITY:** No data available**BOILING POINT:** > 149°C (300°F)**FREEZING POINT:** No data available**MELTING POINT:** No data available**THERMAL DECOMPOSITION:** No data available**SOLUBILITY IN WATER:** Poorly soluble in water.**EVAPORATION RATE:** No data available**DENSITY:** 1.1 g/cm³**SPECIFIC GRAVITY:** 1.1**VISCOSITY #1:** 800 to 1600 Centipoise**(VOC):** < 3 %

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: No**STABILITY:** Stable**CONDITIONS TO AVOID:** Avoid temperatures exceeding 100F/38C and incompatible materials.**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous reactions are possible when exposed to incompatible materials.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition.**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

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Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Methacrylate monomer	> 2000 mg/kg		
Ethylene glycol	> 5000 mg/kg (rat)	10626 mg/kg (rabbit)	
2-Butenedioic acid	2810 mg/kg (rat)	2620 mg/kg (rabbit)	
Quinone	130 mg/kg (rat)		
2,6-di-tert-butyl-p-cresol	890 mg/kg (rat)	> 2000 mg/kg (rat)	
Cumene Hydroperoxide	382 mg/kg (rat)	133 mg/kg (rabbit)	220 ppm per 4 hr (rat)
Titanium dioxide	> 10000 mg/kg (rat)	> 10000 mg/kg (rabbit)	No data available
Cumene	> 2000 mg/kg (rat)	10578 mg/kg (rabbit)	8000 ppm per 4 hr (rat)

SKIN CORROSION/IRRITATION: None known.

RESPIRATORY OR SKIN SENSITISATION: May cause sensitization by skin contact.

GERM CELL MUTAGENICITY: No data available.

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status
Quinone		3
2,6-di-tert-butyl-p-cresol		3
Cumene	Reasonably anticipated to be a human carcinogen.	2B

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

ECOTOXICOLOGICAL INFORMATION: No data available.

BIOACCUMULATION/ACCUMULATION: No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not restricted

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Not restricted

AIR (ICAO/IATA)

SHIPPING NAME: Not restricted

VESSEL (IMO/IMDG)

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SHIPPING NAME: Not restricted

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Not restricted

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Immediate (acute) health and Delayed (chronic) health hazards.

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

313 REPORTABLE INGREDIENTS: Section 313: Cumene hydroperoxide (CAS 80-15-9), less than 3%.

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Quinone	< 5	106-51-4
Cumene Hydroperoxide	< 3	80-15-9

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Contains Cumene hydroperoxide (CAS 80-15-9), less than 3%.

Chemical Name	Wt.%	CERCLA RQ
2-Butenedioic acid	< 5	5,000 lbs.
Quinone	< 5	10
Cumene Hydroperoxide	< 3	10
Cumene	0.02 - 0.155	5,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Methacrylate monomer	25852-47-5
Hydroxypropyl methacrylate	27813-02-1
Ethylene glycol	107-21-1
2-Butenedioic acid	110-16-7
Quinone	106-51-4
2,6-di-tert-butyl-p-cresol	128-37-0
Cumene Hydroperoxide	80-15-9
Titanium dioxide	13463-67-7
Cumene	98-82-8

TSCA STATUS: All components are listed on or are exempt from listing on the Toxic Substances Control Act.

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause

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cancer, birth defects, or other reproductive harm. Ethylene glycol (CAS 107-21-1), Cumene (CAS 98-82-8), Titanium(IV) oxide (CAS 13463-67-7).

Chemical Name	Wt.%	Listed
Ethylene glycol	< 5	Developmental Toxicity
Titanium dioxide	0.215 - 0.2425	Cancer
Cumene	0.02 - 0.155	Cancer

16. OTHER INFORMATION

APPROVED BY: Pacer Technology Regulatory Department

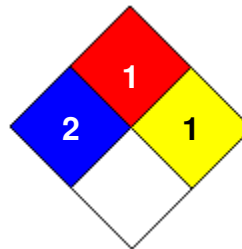
PREPARED BY: Pacer Technology Regulatory Department **Date-Revised:** 09/26/2016

REVISION SUMMARY: This MSDS replaces the 05/26/2015 MSDS. Revised: **Section 1:** APPROVED BY, PREPARED BY. **Section 3:** Wt.%. **Section 6:** SPECIAL PROTECTIVE EQUIPMENT. **Section 9:** AUTOIGNITION TEMPERATURE, DENSITY, EVAPORATION RATE, FLAMMABLE LIMITS, FLASHPOINT AND METHOD, FREEZING POINT, MELTING POINT, PERCENT VOLATILE, pH, POUR POINT, SOLUBILITY IN WATER, SPECIFIC GRAVITY, VAPOR DENSITY, VAPOR PRESSURE, VISCOSITY, (VOC), THERMAL DECOMPOSITION. **Section 10:** COMMENTS, STABLE. **Section 11:** ACUTE, CHRONIC, EYE EFFECTS, IARC, NTP, OSHA, SKIN EFFECTS, SUBCHRONIC, TERATOGENIC EFFECTS, CARCINOGENICITY, GERM CELL MUTAGENICITY. **Section 12:** CHEMICAL FATE INFORMATION, DISTRIBUTION, ECOTOXICOLOGICAL INFORMATION, ENVIRONMENTAL DATA, BIOACCUMULATION/ACCUMULATION, AQUATIC TOXICITY (ACUTE). **Section 15:** CALIFORNIA PROPOSITION 65, WHMIS CLASS.

HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	B

NFPA CODES



HMIS RATINGS NOTES: Safety glasses and gloves are recommended for usage.

MANUFACTURER DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, Pacer Technology does not assume any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.