

# Safety Data Sheet



Zep, Inc.  
1310 Seaboard Industrial Blvd.  
Atlanta, GA 30318  
1-877-I-BUY-ZEP (428-9937)  
www.zep.com

## Section 1. Chemical Product and Company Identification

**Product name** ZEP REMOVABLE THREADLOCKER  
**Product use** Sealants  
**Product code** 6809  
**Date of issue** 06/19/14      **Supersedes** 01/15/07

## Emergency Telephone Numbers

**For MSDS Information:**  
Compliance Services 1-877-I-BUY-ZEP (428-9937)

**For Medical Emergency**  
(877) 541-2016 Toll Free - All Calls Recorded

**For Transportation Emergency**  
CHEMTREC: (800) 424-9300 - All Calls Recorded  
In the District of Columbia (202) 483-7616

## Prepared By

Compliance Services  
1259 Seaboard Industrial Blvd.  
Atlanta, GA 30318

## Section 2. Hazards Identification

### Emergency overview

\*Hazard Determination System (HDS): Health, Flammability, Reactivity

### WARNING!

VAPOR HARMFUL. MAY CAUSE EYE AND SKIN IRRITATION.

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**NOTE:** MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

**Acute Effects**      **Routes of Entry**      Dermal contact. Eye contact. Inhalation.

**Eyes**      May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

**Skin**      May cause an allergic skin reaction. May cause skin irritation. Skin inflammation is characterized by itching, scaling, or reddening.

**Inhalation**      May cause respiratory irritation. Long-term exposure may cause headache, nausea or weakness.

**Ingestion**      No known acute effects of this product resulting from ingestion.

**Chronic effects**      Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

**Carcinogenicity Classification**      Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
cumene	-	2B	-	-	-	-

**Additional information:** See toxicological information (Section 11)

## Section 3. Composition/Information on Ingredients

Name	CAS number	%
Polyethylene Glycol Dimethacrylate	25852-47-5	60 - 100
Polyglycol Oleate; Oleic acid, ethoxylated	9004-96-0	10 - 30
Cumyl Hydroperoxide; $\alpha,\alpha$ -dimethylbenzyl hydroperoxide	80-15-9	1 - 5
Propylene Glycol; propane-1,2-diol	57-55-6	1 - 5
Amorphous Silica; Silica, amorphous, fumed, cryst.-free	112945-52-5	1 - 5
cumene	98-82-8	0.1 - 1

**Section 4. First Aid Measures**

**Eye Contact** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

**Skin Contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, get medical attention.

**Inhalation** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

**Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Section 5. Fire Fighting Measures**

National Fire Protection Association (U.S.A.)



**Flash Point** Closed cup: >93.3°C (199.9°F).  
(Tagliabue.)

**Flammable Limits** Lower: 2.6%  
Upper: 12.5%

**Flammability** Non-flammable.

**Fire hazard** In a fire or if heated, a pressure increase will occur and the container may burst.

**Fire-Fighting Procedures** Use an extinguishing agent suitable for the surrounding fire. In case of fire, use foam, dry chemical or CO<sub>2</sub>. Fire-fighters should wear appropriate protective equipment.

**Section 6. Accidental Release Measures**

**Spill Clean up** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Section 7. Handling and Storage**

**Handling** Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling.

**Storage** Store between the following temperatures: 0 to 32°C (32 to 89.6°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep out of reach of children.

**Section 8. Exposure Controls/Personal Protection**

Ingredient	Exposure limits
Amorphous Silica; Silica, amorphous, fumed, cryst.-free	NIOSH REL (United States, 1/2013). TWA: 6 mg/m <sup>3</sup> 10 hours.
Cumyl Hydroperoxide; $\alpha,\alpha$ -dimethylbenzyl hydroperoxide	AIHA WEEL (United States, 10/2011). Absorbed through skin. TWA: 1 ppm 8 hours.
Propylene Glycol; propane-1,2-diol	AIHA WEEL (United States, 10/2011). TWA: 10 mg/m <sup>3</sup> 8 hours.
cumene	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 245 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 1/2013). Absorbed through skin. TWA: 50 ppm 10 hours. TWA: 245 mg/m <sup>3</sup> 10 hours. ACGIH TLV (United States, 3/2012). TWA: 50 ppm 8 hours. OSHA PEL (United States, 6/2010). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 245 mg/m <sup>3</sup> 8 hours.

**Personal Protective Equipment (PPE)**

**Eyes** Safety glasses with side shields. Splash goggles.



**Body** Neoprene or butyl rubber Gloves.

**Respiratory** Use with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid.	<b>Color</b>	Blue.
<b>pH</b>	Not available.	<b>Odor</b>	Mild.
<b>Boiling Point</b>	>149°C (300.2°F)	<b>Vapor Pressure</b>	Not available.
<b>Specific Gravity</b>	1.1 (Water = 1)	<b>Vapor Density</b>	Not available.
<b>Solubility</b>	Very slightly soluble in the following materials: cold water and hot water.	<b>Evaporation Rate</b>	Not available.
		<b>VOC (Consumer)</b>	0.56 % (w/w) 0.0514 lbs/gal (6.2 g/l)

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive or incompatible with the following materials: oxidizing materials, reducing materials, metals and alkalis.
<b>Hazardous Polymerization</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> etc.), sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> etc.)

**Section 11. Toxicological Information**

Product/ingredient name	Result	Species	Dose	Exposure
Amorphous Silica; Silica, amorphous, fumed, cryst.-free	LD50 Oral	Rat	3160 mg/kg	-
Cumyl Hydroperoxide; $\alpha,\alpha$ -dimethylbenzyl hydroperoxide	LC50 Inhalation Gas.	Rat	220 ppm	4 hours
	LD50 Dermal	Rat	500 mg/kg	-
	LD50 Oral	Rat	382 mg/kg	-
Propylene Glycol; propane-1,2-diol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	1400 mg/kg	-
ZEP REMOVABLE THREADLOCKER	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>10000 mg/kg	-

**Section 12. Ecological Information**

<b>Environmental Effects</b>	Not available.
<b>Aquatic ecotoxicity</b>	

Product/ingredient name	Result	Species	Exposure
Propylene Glycol; propane-1,2-diol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000 mg/l Marine water	Crustaceans - Chaetogammarus marinus - Young	48 hours
cumene	Acute LC50 710000 $\mu$ g/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute EC50 2600 $\mu$ g/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 7400 $\mu$ g/l Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
	Acute EC50 10600 $\mu$ g/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2700 $\mu$ g/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

**Section 13. Disposal Considerations****Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

<b>Waste Stream</b>	Classification: Non-hazardous waste
	Origin: RCRA waste.

**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
<b>DOT Classification</b>	Not regulated.	-	-	-	
<b>IMDG Class</b>	Not regulated.	-	-	-	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG\* : Packing group

**Section 15. Regulatory Information****U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

**Product name**

Cumyl Hydroperoxide;  $\alpha,\alpha$ -dimethylbenzyl hydroperoxide

**Clean Water Act (CWA) 311:** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

**All Components of this product are listed or exempt from listing on TSCA Inventory.**

**State Regulations****California Prop 65**

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

**Section 16. Other Information**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever 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 that exist.*

*\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.*

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