



# Mercury Adhesives Threadlocker TL42

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 09/22/2014

Revision date: 09/22/2014

Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : Mercury Adhesives Threadlocker TL42

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Medium Strength Anaerobic Thread Locker

#### 1.3. Details of the supplier of the safety data sheet

Mercury Adhesives, Inc.,  
1353 Riverstone Pkwy, Ste. 120-257  
Canton, GA 30114 - United States  
T 770-988-4583; F 678-609-8221  
[support@mercuryadhesives.com](mailto:support@mercuryadhesives.com) – <http://www.mercuryadhesives.com>

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300; CHEMTREC® International Emergency number: 703-527-3887

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin Irrit. 2 H315  
Eye Irrit. 2A H319  
STOT SE 3 H335

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P271 - Use only in a well-ventilated area  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362 - Take off contaminated clothing  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P501 - Dispose of contents/container to local, regional, national, and international regulations.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Full text of H-phrases: see section 16

#### 3.2. Mixture

##### Hazardous ingredients:

Name	Product identifier	%	GHS-US classification
Poly(ethylene glycol) Dimethacrylate	(CAS No) 25852-47-5	60 - 70	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
cumene hydroperoxide	(CAS No) 80-15-9	1 - 3	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Dermal), H310

# Mercury Adhesives Threadlocker TL42

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS-US classification
saccharin	(CAS No) 81-07-2	1 - 2	Skin Corr. 1A, H314

### SECTION 4: First aid measures

#### Description of first aid measures

First-aid measures after inhalation	: Remove the victim into fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses. Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Immediately after ingestion: give lots of water to drink. Get immediate medical attention.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Alcohol-resistant foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use direct water jet to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity	: No dangerous reactions known under normal conditions of use.
------------	--

#### 5.3. Advice for firefighters

Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ensure adequate ventilation. Evacuate area.
------------------	---

##### 6.1.1. For non-emergency personnel

Protective equipment	: Use appropriate personal protection equipment (PPE).
Emergency procedures	: Keep suitable chemically resistant protective clothing readily available for emergency use.

##### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Evacuate unnecessary personnel. Stop release. Ventilate area. Use appropriate personal protection equipment (PPE).

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Absorb excess liquid spillage on inorganic adsorbent material such as fine sand, brick dust etc. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor. Collect spillage. Dispose of contents/container to local, regional, national, and international regulations.
-----------------	--

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.
Hygiene measures	: Do not eat, drink or smoke in areas where product is used. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed. Keep container closed when not in use. Store in a cool, dry place, out of direct sunlight. Can be stored in LDPE containers. Do not allow to contact or store in aluminum, mild steel, rusty steel, copper (or alloys of) or tin vessels.
--------------------	--

# Mercury Adhesives Threadlocker TL42

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Incompatible products : Oxidizing agents. Strong acids. Strong bases.

### SECTION 8: Exposure controls/personal protection

Appropriate engineering controls : Ensure all national/local regulations are observed. Provide adequate general and local exhaust ventilation.

Personal protective equipment : Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus.

Materials for protective clothing : Wear fire/flamm resistant/retardant clothing.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Protective clothing.

Respiratory protection : Avoid breathing dust, mist or spray. Wear respiratory protection.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state : Thixotropic Liquid

Appearance : Opaque Blue Liquid.

Colour : Blue.

Odour : Characteristic odour.

Relative evaporation rate (ether=1) : Low

Boiling point : > 290 °F

Flash point : > 212 °F

Flammability (solid, gas) : Non flammable

Vapour pressure : <5 mmHg

Relative vapour density at 20 °C : 1.01

Specific Gravity at 20 °C : 1.1

Solubility : Insoluble in water. Soluble in acetone.

Explosive properties : Not applicable.

Hazardous Air Pollutants : < 0.5 % weight [Test Method: Calculated]

Percent volatile : <=3 % weight [Test Method: ACS METHOD]

VOC : < 30 g/l [Test Method: tested per EPA method 24]

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Will not occur.

#### 10.4. Conditions to avoid

Direct sunlight. High temperature. Sources of ignition, low oxygen environments. Hazardous exothermic polymerization can occur if exposed to elevated temperatures for period of time. Air space/ oxygen above the product is vital to keep formulatory inhibitors active

#### 10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Irritating fumes.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

cumene hydroperoxide (80-15-9)	
LD50 oral rat	382 mg/kg (Rat)
LD50 dermal rat	1200-1520,Rat
LD50 dermal rabbit	133 mg/kg bodyweight (Rabbit)
LC50 inhalation rat (mg/l)	1.37 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	220 ppm/4h (Rat)

saccharin (81-07-2)	
IARC group	3 - Not classifiable

# Mercury Adhesives Threadlocker TL42

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 12: Ecological information

#### 12.1. Toxicity

cumene hydroperoxide (80-15-9)	
LC50 fishes 1	14 mg/l (48 h; Leuciscus idus; GLP)
EC50 Daphnia 1	7 mg/l (24 h; Daphnia magna; Static system)
LC50 fish 2	3.9 mg/l (96 h; Oncorhynchus mykiss)
EC50 Daphnia 2	18.84 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1	1.2 mg/l (Microcystis aeruginosa)
Threshold limit algae 2	7.4 mg/l (Scenedesmus quadricauda)

#### 12.2. Persistence and degradability

Mercury Adhesives Threadlocker TL42	
Persistence and degradability	No data available.

  

saccharin (81-07-2)	
Persistence and degradability	Biodegradability in water: no data available.

  

cumene hydroperoxide (80-15-9)	
Persistence and degradability	Not readily biodegradable in water. Highly mobile in soil.

#### 12.3. Bioaccumulative potential

Mercury Adhesives Threadlocker TL42	
Bioaccumulative potential	No bioaccumulation data available.

  

saccharin (81-07-2)	
Log Pow	0.91
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

  

cumene hydroperoxide (80-15-9)	
BCF other aquatic organisms 1	9
Log Pow	1.6 (Experimental value; 25 °C, Experimental value; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

#### 12.4. Mobility in soil

cumene hydroperoxide (80-15-9)	
Surface tension	0.028 N/m (-9 °C)

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods	: Remove waste in accordance with local and/or national regulations.
Waste disposal recommendations	: Product residues can be cleaned out of containers. Dispose in a safe manner in accordance with local/national regulations. Alternatively, product can be polymerized using Mercury Adhesives AC64 activator (care should be taken if polymerizing a large quantity of product due to exothermic reaction). Hardened product can be disposed of as chemical waste by incineration or licensed contractors. Clean containers can be disposed of by landfill or by incineration or possibly recycled.

### SECTION 14: Transport information

In accordance with DOT	: Not Regulated
Proper Shipping Name	: N/A
Transport document description	: N/A
Hazard Class	: N/A
Packing Group	: N/A
UN-No. (DOT)	: None
DOT NA no.	: N/A
Marine Pollutant	: N/A

#### Additional information

Other information	: No supplementary information available.
-------------------	---

# Mercury Adhesives Threadlocker TL42

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### ADR

Transport document description : N/A

### Transport by sea

Not Regulated

### Air transport

Not Regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Mercury Adhesives Threadlocker TL42

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
-------------------------------------	--

#### Poly(ethylene glycol) Dimethacrylate (25852-47-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### saccharin (81-07-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb
--	--------

#### cumene hydroperoxide (80-15-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's List of Lists) :	10 lb
--	-------

### 15.2. International regulations

#### CANADA

WHMIS Hazard Class: D2B

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315  
Eye Irrit. 2A H319  
STOT SE 3 H335

#### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

#### saccharin (81-07-2)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### cumene hydroperoxide (80-15-9)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Full text of H-phrases:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

# Mercury Adhesives Threadlocker TL42

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

---

### HMIS III Rating

Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard
Physical	: 1 Slight Hazard

SDS US (GHS HazCom 2012)

*This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.*

*Information presented herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. Nothing herein shall be considered as recommending practices or products in violation of any patent, law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. WE MAKE NO WARRANTIES REGARDING THE PRODUCTS AND DISCLAIM ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.*