



Revision Number: 008.0

Issue date: 02/05/2024

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** LOCTITE® 243™ THREADLOCKER  
**Product type/use:** Threadlocker  
**Restriction of Use:** None identified  
**Company address:**  
Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**IDH number:** 1329837  
**Item number:** 1329837  
**Region:** United States  
**Contact information:**  
Telephone: +1 (860) 571-5100  
MEDICAL EMERGENCY Phone: Poison Control Center  
1-877-671-4608 (toll free) or 1-303-592-1711  
TRANSPORT EMERGENCY Phone: CHEMTREC  
1-800-424-9300 (toll free) or 1-703-527-3887  
Internet: www.henkelna.com

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

**WARNING:** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.  
SUSPECTED OF CAUSING CANCER.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
CARCINOGENICITY	2

**PICTOGRAM(S)****Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.

**Response:** IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.

**Storage:** Store locked up.

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Component(s)	CAS Number	Percentage*
Tetramethylene dimethacrylate	2082-81-7	10 - 30
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	1 - 5

IDH number: 1329837

Product name: LOCTITE® 243™ THREADLOCKER

Ethene, homopolymer	9002-88-4	1 - 5
Propane-1,2-diol	57-55-6	1 - 5
Cumene hydroperoxide	80-15-9	0.1 - 1
1-Acetyl-2-phenylhydrazine	114-83-0	0.1 - 1

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

## 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Skin contact:</b>	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). Wash clothing before reuse. Get medical attention.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Symptoms:</b>	See Section 11.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.
<b>Unusual fire or explosion hazards:</b>	Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic fragments.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Refer to Section 8.
<b>Storage:</b>	For safe storage, store at or below 38 °C (100.4 °F) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Tetramethylene dimethacrylate	None	None	None	None
Silane, dichlorodimethyl-, reaction products with silica	3 mg/m <sup>3</sup> TWA Respirable particles. 10 mg/m <sup>3</sup> TWA Inhalable particles.	0.8 mg/m <sup>3</sup> TWA 20 MPPCF TWA 50 MPPCF TWA Total dust. 15 mg/m <sup>3</sup> TWA Total dust. 5 mg/m <sup>3</sup> TWA Respirable fraction. 15 MPPCF TWA Respirable fraction.	None	None
Ethene, homopolymer	10 mg/m <sup>3</sup> TWA Inhalable particles. 3 mg/m <sup>3</sup> TWA Respirable particles.	15 MPPCF TWA Respirable fraction. 15 mg/m <sup>3</sup> TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m <sup>3</sup> TWA Respirable fraction. 5 mg/m <sup>3</sup> PEL Respirable fraction. 15 mg/m <sup>3</sup> PEL Total dust.	None	None
Propane-1,2-diol	None	None	10 mg/m <sup>3</sup> TWA Aerosol.	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m <sup>3</sup> ) TWA (SKIN)	None
1-Acetyl-2-phenylhydrazine	None	None	None	None

### Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

### Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

### Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. Butyl rubber gloves. Neoprene gloves. Natural rubber gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical state:

Liquid

### Color:

Blue

### Odor:

Characteristic

### Odor threshold:

Not available.

### pH:

Not applicable, Product is non-polar/aprotic.

### Vapor pressure:

< 0.1 mm hg (27 °C (80.6 °F)) 1.7 mbar (25 °C (77°F)) < 300 mbar (50 °C (122°F)) no method / method unknown < 0.13 mbar (20 °C (68°F))  
> 150 °C (> 302°F)

### Boiling point/range:

Not applicable, Product is a liquid

### Melting point/ range:

1.09

### Specific gravity:

### Vapor density:

> 1 20 °C

### Flash point:

> 100 °C (> 212°F)

### Flammable/Explosive limits - lower:

Not available.

### Flammable/Explosive limits - upper:

Not available.

### Autoignition temperature:

Not available.

### Flammability:

The product is not flammable.

### Evaporation rate:

Not available.

### Solubility in water:

Soluble

### Solubility in water:

Slight

### Partition coefficient (n-octanol/water):

Not available.

IDH number: 1329837

Product name: LOCTITE® 243™ THREADLOCKER

VOC content: 1.09 %; 11.88 g/l  
 Viscosity: Not available.  
 Decomposition temperature: Not available.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of storage and use.

**Hazardous reactions:** None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.

**Hazardous decomposition products:** Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Irritating organic fragments.

**Incompatible materials:** Strong oxidizing agents. Reducing agents. Strong alkalis. Oxygen scavengers. Other polymerization initiators. Heavy metals.

**Reactivity:** Not available.

**Conditions to avoid:** Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects/Symptoms

**Inhalation:** Inhalation of vapors or mists of the product may be irritating to the respiratory system.  
**Skin contact:** Causes skin irritation. May cause allergic skin reaction.  
**Eye contact:** Causes serious eye irritation.  
**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Tetramethylene dimethacrylate	None	Irritant, Allergen
Silane, dichlorodimethyl-, reaction products with silica	None	No Data
Ethene, homopolymer	None	No Target Organs
Propane-1,2-diol	Oral LD50 (Rabbit) = 18 g/kg Oral LD50 (Mouse) = 23.9 g/kg Oral LD50 (Rat) = 30 g/kg	Irritant
Cumene hydroperoxide	None	Allergen, Central nervous system, Corrosive, Irritant, Mutagen
1-Acetyl-2-phenylhydrazine	Oral LD50 (Mouse) = 270 mg/kg	Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Tetramethylene dimethacrylate	No	No	No
Silane, dichlorodimethyl-, reaction products with silica	No	No	No
Ethene, homopolymer	No	No	No
Propane-1,2-diol	No	No	No
Cumene hydroperoxide	No	No	No
1-Acetyl-2-phenylhydrazine	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

#### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**DOT Hazardous Substance(s):** alpha,alpha-Dimethylbenzylhydroperoxide

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

#### Water Transportation (IMO/IMDG)

**Proper shipping name:** RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

### 15. REGULATORY INFORMATION

#### United States Regulatory Information

**TSCA 8 (b) Inventory Status:** All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.

**TSCA 12 (b) Export Notification:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.

**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health

**CERCLA/SARA Section 313:** None above reporting de minimis.

**CERCLA Reportable quantity:** Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)

**California Proposition 65:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. This product contains a chemical known in the State of California to cause cancer.

#### Canada Regulatory Information

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3,8,9,11,15

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 02/05/2024

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This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.



**Valid for the following product/s as delivered by Henkel:** LOCTITE® 243™ THREADLOCKER

**Referenced Document/s in terms of enquiry/ies, specs, standard/s or substance list/s:**

EU Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (**RoHS**), OJ 13.02.2003; esp. its Article 4, as last amended by Commission Delegated Directive (EU) 2015/863.

**Confirmation:**

We herewith confirm, that the above mentioned product does not contain any of the restricted substances as listed in the above referenced documents in concentrations above the limits as specified therein.

**Disclaimer:**

Please note that this confirmation is given to the best of our present knowledge and belief. Nothing herein represents and/or may be interpreted as warranty within the meaning of the applicable warranty law.

Date: March 28, 2024

 <hr/> Senthil Pichandi Vice President Global Product Safety & Regulatory Affairs Henkel Corporation One Henkel Way Rocky Hill, CT 06067 USA	 <hr/> Sandra Wade Regional Head Product Safety & Regulatory Affairs – Europe Henkel Ireland Operations and Research Ltd Tallaght Business park Whitestown Tallaght, Dublin 24 Ireland
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## ***Regulatory Data Sheet***

Page 1 of 5

LOCTITE® 243™ THREADLOCKER

1329837 V001.17

Product ID 1329837

Revision: 2024-MAR-27

printing date: 2024-MAR-28

Replaces version from: 2024-FEB-02

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### **GENERAL INFORMATION**

The safety and regulatory data provided in this RDS is based on our current knowledge and on supplier information that we have not independently verified. Due to the various possible applications and the application and working conditions beyond our control, this RDS may not be adequate to satisfy any requirements you may have under relevant laws and regulations applicable. Hence, the data provided herein does not release you from conducting your own risk assessment prior to any use in your production or before application of Henkel product. In particular, we do not assume any liability for the suitability of our products for the relevant production processes under the specific working conditions and the intended processing purposes and results. Henkel latest updated product information, including but not limited to technical and safety data sheets, should be consulted prior to use of Henkel products.

Please be informed that we do not check any import/export requirements applicable to you under the conditions of the local legal systems. The responsibility for the legality of imports and exports of our products lies solely with the respective importer or exporter - Henkel as a manufacturing company does not know the individual circumstances of our customer's imports and exports and is therefore not in a position to assess any regulatory requirements including but not limited to import restrictions and/or corresponding obligations such as notification requirements et.al.

Henkel cannot exclude that certain substance(s) may be present as adventitious trace impurities (not intentionally added to the product). Such analyses for trace impurities in the products are not conducted as part of routine Henkel procedures.

The information in this document applies to the best of our knowledge regarding the product as of the date it has left our premises. Henkel is not obliged to update any of this information.

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## PROHIBITION AND RESTRICTIONS

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### EU REACH Annex XVII

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To the best of our knowledge, this product does not contain substances which are listed in the current Annex XVII to the REACH Regulation (EC) No 1907/2006 at 0,1 weight% or higher.

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### EU REACH Annex XIV

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To the best of our knowledge, this product does not contain substances which are listed in the current version of Annex XIV (substances subject to Authorisation) at a percentage of 0,1 weight% or higher.

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### EU REACH SVHC

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To the best of our knowledge, this product does not contain substances which are listed in the current version of the candidate list of Substances of Very High Concern (SVHC) at a percentage of 0,1 weight% or higher.

**GLOBAL INVENTORY STATUS**

Country	Inventory	Inventory Status
USA	TSCA 8(b)	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.
USA		Some substances on the US Chemical Inventory may be subject to a rule or order promulgated by EPA under TSCA. These substances could have restrictions associated with manufacturing, import, processing, use or disposal. To determine if a substance in this product is subject to a TSCA rule or order, please see the US Safety Data Sheet or contact Henkel Product Safety & Regulatory Affairs.
Canada	DSL	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
Chile	SQI	Please contact your local Henkel representative.
Colombia	INSQUI	Please contact your local Henkel representative.
Europe	REACH	Please contact your local Henkel representative.
Switzerland	CHEM-O	Please contact your local Henkel representative.
United Kingdom	UK REACH	Please contact your local Henkel representative.
Turkey	KKDIK	Please contact your local Henkel representative.
Australia	AIC	All components are listed or are exempt from listing on the Australian Inventory of Industrial Chemicals or Introduced under AICIS.
China	IECSC	All components are listed or are exempt from listing on the Inventory of Existing Chemical Substances in China (IECSC)
Japan	ENCS	All components are listed or are exempt from listing on the Japanese List of Existing and New Chemical Substances (ENCS)
Japan	ISHL	All components are listed or are exempt from listing regarding the Japanese Industrial Safety and Health Law (ISHL)
South Korea	KECI	All components are listed or are exempt from listing on the Korean Existing Chemicals Inventory (KECI).  Please contact your local Henkel representative.
New Zealand	NZIOC	All components are listed or are exempt from listing on the New Zealand Inventory of Chemicals (NZIOC)
Philippines	PICCS	One or more components are not listed on, and are not exempt from listing on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).
Taiwan	TCSI	All components are listed or are exempt from listing on the Taiwan Existing Chemicals Inventory (TCSI)  Please contact your local Henkel representative.

**SUBSTANCES OF CONCERN**

To the best of our knowledge, after plausibility check of the above referenced product(s) formulation, on the date the products has left the premises, the presence of substances is as follows:

(Note: The below list contains both single substances and substance groups. If "Yes" is indicated for a substance group, it means that one or multiple substances of the group is/are present)

Substances	Threshold Limit	Present
Perfluorooctanoic acid (PFOA) and salts	25 ppb	No
Dimethyl fumarate	100 ppb	No
Polycyclic aromatic hydrocarbons (PAH)	1 ppm	No
Hexachlorobenzene	10 ppm	No
Perfluorooctane sulfonates (PFOS) and salts	10 ppm	No
Polychlorinated naphthalenes (PCNs)	10 ppm	No
Polychlorinated Biphenyls (PCBs)	50 ppm	No
Polychlorinated Terphenyls (PCTs)	50 ppm	No
Hexabromocyclododecane	100 ppm	No
Asbestos	0,1 % (w/w)	No
Azo colorants forming certain aromatic amines	0,1 % (w/w)	No
Benzene	0,1 % (w/w)	No
Benzotriazolyl-4,6-di-tert-butylphenol	0,1 % (w/w)	No
Chlorinated phosphate esters (TDCPP, TCEP, TCPP)	0,1 % (w/w)	No
Formaldehyde	0,1 % (w/w)	No
Organotin compounds (DBTs, DOTs, TBTs, TPTs)	0,1 % (w/w)	No
Ozone Depleting Substances (ODSs)	0,1 % (w/w)	No
Phthalates (DEHP, BBP, DBP, DIBP)	0,1 % (w/w)	No
Radioactive substances	0,1 % (w/w)	No
Short Chain Chlorinated Paraffins (C10-13)	0,1 % (w/w)	No
Specified brominated flame retardants (PBBs, PBDEs)	0,1 % (w/w)	No

**DISCLAIMER**

Henkel does not give any warranty nor assume any responsibility with regard to the correctness, completeness and validity of the information provided in this RDS. Any liability resulting from the information contained in this RDS and any other written or oral advice given for this product is expressly excluded. This limitation of liability does not apply in case of our intent or gross negligence, in case of death, injury or detriment of health due to our default and an infringement of essential contractual obligations, if any, to HENKEL's default. However, HENKEL's liability for an infringement of essential contractual obligations, if any, shall be limited to reimbursement of foreseeable, contractually typical damages, unless we are liable due to intent or gross negligence, death, injury or detriment of health, or pursuant to the applicable liability laws.