Safety Data Sheet



Revision Number: 006.2

Issue date: 11/07/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type: Restriction of Use: Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

LOCTITE® 243™ THREADLOCKER Anaerobic None identified

IDH number: 1330333 Item number: 1330333 Region: United States Contact information: Telephone: (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT ENERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

WARNING:

EMERGENCY OVERVIEW CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.

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



Precautionary Statements

Prevention:	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, eye protection, 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 skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing.
Storage:	Not prescribed
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*

Polyglycol dimethacrylate	25852-47-5	20 - 30
Tetramethylene dimethacrylate	2082-81-7	20 - 30
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
Cumene	98-82-8	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		
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.	
Skin contact:	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). Wash clothing before reuse. Get medical attention.	
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.	
Symptoms:	See Section 11.	
5. FI	IRE FIGHTING MEASURES	
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.	
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.	
Unusual fire or explosion hazards:	Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.	
Hazardous combustion products:	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.

Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	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

Handling:

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.

Storage:

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
Polyglycol dimethacrylate	None	None	None	None
Tetramethylene dimethacrylate	None	None	None	None
Propane-1,2-diol	None	None	10 mg/m3 TWA Aerosol.	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
1-Acetyl-2-phenylhydrazine	None	None	None	None
Cumene	50 ppm TWA	50 ppm (245 mg/m3) PEL (SKIN)	None	None

Engineering controls:

Respiratory protection:

Eye/face protection:

Skin protection:

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

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

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.

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: Color: Odor: Odor threshold: pH: Vapor pressure: **Boiling point/range:** Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Flammability: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity:

y:

Liquid Blue Characteristic Not available. Not available. < 0.1 mm hg (27 °C (80.6 °F)) > 149 °C (> 300.2 °F) Not available. 1.09 Not available. > 93 °C (> 199.4 °F) Not available. Not available. Not available. Not applicable Not available. Slight Not available. 1.09 %; 11.88 g/l 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
Polyglycol dimethacrylate	None	Allergen, Irritant
Tetramethylene dimethacrylate	None	Irritant, Allergen
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	Inhalation LC50 (Mouse, 4 h) = 200 mg/l	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
Cumene	Oral LD50 (Rat) = 2.91 g/kg Oral LD50 (Rat) = 1,400 mg/kg Inhalation LC50 (Rat, 4 h) = 8000 ppm	Central nervous system, Irritant, Lung

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyglycol dimethacrylate	No	No	No
Tetramethylene dimethacrylate	No	No	No
Propane-1,2-diol	No	No	No
Cumene hydroperoxide	No	No	No
1-Acetyl-2-phenylhydrazine	No	No	No
Cumene	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Hazardous waste number:

Not a RCRA hazardous waste.

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 package/configuration.

U.S. Department of Transportation Ground (4	49 CFR)
Proper shipping name:	RQ, Environmentally hazardous substance, liquid, n.o.s.
Hazard class or division:	9
Identification number:	UN 3082
Packing group:	
DOT Hazardous Substance(s):	alpha,alpha-Dimethylbenzylhydroperoxide
International Air Transportation (ICAO/IATA)	
Proper shipping name:	RQ, Environmentally hazardous substance, liquid, n.o.s. (Fatty acid amide)
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. (Fatty acid amide)
Hazard class or division:	9
Identification number:	UN 3082
Packing group:	III
Marine pollutant:	Fatty acid amide

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None above reporting de minimis
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313: CERCLA Reportable quantity:	None above reporting de minimis. Immediate Health, Delayed Health None above reporting de minimis. Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)
California Proposition 65:	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: Reviewed SDS. Reissued with new date. 3

Prepared by: Sheila Gines, Regulatory Affairs Specialist

Issue date: 11/07/2016

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LOCTITE[®] 243™

(TDS for new formulation of Loctite[®] 243™) March 2012

PRODUCT DESCRIPTION

LOCTITE[®] 243[™] provides the following product characteristics:

Technology	Acrylic
Chemical Type	Dimethacrylate ester
Appearance (uncured)	Blue liquid ^{LMS}
Fluorescence	Positive under UV light ^{LMS}
Components	One component -
	requires no mixing
Viscosity	Medium, thixotropic
Cure	Anaerobic
Secondary Cure	Activator
Application	Threadlocking
Strength	Medium

This Technical Data Sheet is valid for LOCTITE[®] 243[™] manufactured from the dates outlined in the "Manufacturing Date Reference" section.

LOCTITE[®] 243TM is designed for the locking and sealing of threaded fasteners which require normal disassembly with standard hand tools. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. The thixotropic nature of LOCTITE[®] 243TM reduces the migration of liquid product after application to the substrate. LOCTITE[®] 243TM provides robust curing performance. It not only works on active metals (e.g. brass, copper) but also on passive substrates such as stainless steel and plated surfaces. The product offers high temperature performance and oil tolerance. It tolerates minor surface contaminations from various oils, such as cutting, lubrication, anti-corrosion and protection fluids.

NSF International

Registered to NSF Category P1 for use as a sealant where there is no possibility of food contact in and around food processing areas. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

NSF International

Certified to ANSI/NSF Standard 61 for use in commercial and residential potable water systems not exceeding 82° C. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C 1.08 Flash Point - See SDS Viscosity, Brookfield - RVT, 25 °C, mPa·s (cP):

Spindle 3, speed 20 rpm,	1,300 to 3,000 ^{LMS}
Viscosity, Cone & Plate, 25 °C, mPa·s (cP):	:
Cone 35/2°Ti @ shear rate 129 s ⁻¹	350

TYPICAL CURING PERFORMANCE

Cure Speed vs. Substrate

The rate of cure will depend on the substrate used. The graph below shows the breakaway strength developed with time on M10 steel nuts and bolts compared to different materials and tested according to ISO 10964.



Cure Speed vs. Bond Gap

The rate of cure will depend on the bondline gap. Gaps in threaded fasteners depends on thread type, quality and size. The following graph shows shear strength developed with time on steel pins and collars at different controlled gaps and tested according to ISO 10123.





Cure Speed vs. Temperature

The rate of cure will depend on the temperature. The graph below shows the breakaway strength developed with time at different temperatures on M10 steel nuts and bolts and tested according to ISO 10964.



Cure Speed vs. Activator

Where cure speed is unacceptably long, or large gaps are present, applying activator to the surface will improve cure speed. The graph below shows the breakaway strength developed with time on M10 zinc dichromate steel nuts and bolts using Activator 7471[™], 7649[™], 7088[™] and 7091[™] and tested according to ISO 10964.



TYPICAL PERFORMANCE OF CURED MATERIAL **Adhesive Properties**

Cured for 24 hours @ 22 °C Breakaway Torque, ISO 10964, Uns	eated:	
M10 steel nuts and bolts	N∙m (Ib.in.)	26 (230)
M6 steel nuts and bolts	N·m (lb.in.)	3 (26)
M16 steel nuts and bolts	N∙m (lb.in.)	44 (390)
3/8 x 16 steel nuts and bolts	N·m (lb.in.)	12 (106)

Prevail Torque @ 180°, ISO 10964, Unse	ated:	
M10 steel nuts and bolts	N∙m	5
MC start puts and halts	(lb.in.) N∙m	(40)
M6 steel nuts and bolts		1 (8)
M16 steel nuts and bolts	N·m	• •
	(lb.in.)	(115)
3/8 x 16 steel nuts and bolts	N·m	3
	(lb.in.)	(26)
Breakloose Torque, ISO 10964, Pre-torqu	ed to 5 N·	m:
M10 steel nuts and bolts	N∙m	
	(lb.in.)	` '
3/8 x 16 steel nuts and bolts	N·m (Ib. in)	
	(lb.in.)	(130)
Prevail Torque @ 180°, ISO 10964, Pre-to	orqued to	5 N∙m:
M10 steel nuts and bolts	N∙m	4
	(lb.in.)	` '
3/8 x 16 steel nuts and bolts	N·m (Ib. in.)	
	(lb.in.)	(30)

Compressive Shear Strength, ISO 10123	3:	
Steel pins and collars		≥7.6 ^{∟MS} (≥1,100)

Cured for 1 week @ 22 °C

Breakloose Torque, ISO 10964, Pre-torqu	ued to 5 N	l∙m:
M10 zinc phosphate nuts and bolts	N∙m	26
	(lb.in.)	(230)
M10 stainless steel nuts and bolts	N∙m	17
	(lb.in.)	(150)

TYPICAL ENVIRONMENTAL RESISTANCE

Cured for 1 week @ 22 °C

Breakloose Torque, ISO 10964, Pre-torqued to 5 N·m: M10 zinc phosphate steel nuts and bolts



Hot Strenath

Henkel Europe +49.89.320800.1800

For the most direct access to local sales and technical support visit: www.henkel.com/industrial

Heat Aging Aged at temperature indicated and tested @ 22 °C



Heat Aging/Hot Strength

Aged under conditions indicated and tested at temperature



Chemical/Solvent Resistance

Aged under conditions indicated and tested @ 22 °C.

		% o	f initial strer	ngth
Environment	°C	500 h	1000 h	5000 h
Motor oil	125	110	115	115
Unleaded gasoline	22	100	95	100
Brake fluid	22	105	110	125
Water/glycol 50/50	87	120	125	130
Acetone	22	85	85	80
Ethanol	22	95	90	90
E85 Ethanol fuel	22	95	100	95
B100 Bio-Diesel	22	110	110	125
DEF (AdBlue [®])	22	61	59	70

Breakloose Torque, ISO 10964, Pre-torqued to 5 N·m: M10 Stainless steel nuts and bolts

		% o	f initial strer	ngth
Environment	°C	500 h	1000 h	5000 h
Sodium Hydroxide, 20%	22	105	105	95
Phosphoric Acid, 10%	22	110	105	110

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Safety Data Sheet (SDS).

Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check for compatibility of the washing solution with the adhesive. In some cases these aqueous washes can affect the cure and performance of the adhesive.

This product is not normally recommended for use on plastics (particularly thermoplastic materials where stress cracking of the plastic could result). Users are recommended to confirm compatibility of the product with such substrates.

Directions for use:

For Assembly

- 1. For best results, clean all surfaces (external and internal) with a LOCTITE[®] cleaning solvent and allow to drv.
- 2. If the cure speed is too slow, use appropriate activator. Please see the Cure Speed vs. Activator graph for reference. Allow the activator to dry when needed.
- 3. Shake the product thoroughly before use.
- To prevent the product from clogging in the nozzle, do not allow 4 the tip to touch metal surfaces during application.
- 5. For Thru Holes, apply several drops of the product onto the bolt at the nut engagement area.
- 6. For Blind Holes, apply several drops of the product to the lower third of the internal threads in the blind hole, or the bottom of the blind hole.
- 7. For Sealing Applications, apply a 360° bead of product to the leading threads of the male fitting, leaving the first thread free. Force the material into the threads to thouroughly fill the voids. For bigger threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also.
- 8. Assemble and tighten as required.

For Disassembly

- 1. Remove with standard hand tools.
- 2. In rare instances where hand tools do not work because of excessive engagement length, apply localized heat to nut or bolt to approximately 250 °C. Disassemble while hot.
- 3. Apply localized heat to the assembly to approximately 250 C. Disassemble while hot.

For Cleanup

1. Cured product can be removed with a combination of soaking in a Loctite solvent and mechanical abrasion such as a wire brush.

Loctite Material Specification^{LMS}

LMS dated June 29, 2009. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product propertiesMaterial removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

 $(^{\circ}C x 1.8) + 32 = ^{\circ}F$ kV/mm x 25.4 = V/mil mm / 25.4 = inches μ m / 25.4 = mil N x 0.225 = lb N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa x 145 = psi N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

Manufacturing Date Reference

This Technical Data Sheet is valid for LOCTITE[®] 243[™] manufactured from the dates below:

Made in:	First manufacturing date:
EU	July 2013
Brazil	July 2010
China	August 2009
India	August 2009
U.S.A.	December 2009

The manufacturing date can be determined from the batch code on the pack. For assistance please contact your local Technical Service Center or Customer Service Representative.

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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Reference 0.4