

Safety Data Sheet
Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



1. Identification

1.1. Product identifier

Product Identity 11-676696-000 Loctite-Threadlocker #242 blue 10ml
11-676696-050 Loctite-Threadlocker #242 blue 50ml

Alternate Names Loctite 242 Threadlocker Medium Strength

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

Intended use Anaerobic sealant

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Brunswick Bowling Products, LLC
525 W. Laketon Ave.
Muskegon, MI 49441 USA

Emergency

24 hour Emergency Telephone No. (CHEMTEL) International: +01-813-248-0585
US: 1-800-255-3924

Customer Service: Brunswick Bowling & Billiards 231-725-4966

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Combustible Liquid;H227	Combustible Liquid.
Acute Tox. 4;H332	Harmful if inhaled.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Dam. 1;H318	Causes serious eye damage.
Skin Sens. 1;H317	May cause an allergic skin reaction.
STOT SE 3;H335	May cause respiratory irritation.
STOT RE 2;H373	May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (Not Available)

Safety Data Sheet

Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H227 Combustible liquid.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P313 Get medical advice / attention.

P314 Get Medical advice / attention if you feel unwell.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

Safety Data Sheet

Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



[Storage]:

P403+235 Store in a well ventilated place. Keep cool.

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Polyglycol dimethacrylate CAS Number: Proprietary	75 - 100	Skin Sens. 1;H317 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335	[1]
Polyglycol oleate CAS Number: Proprietary	10 - 25	Skin Irrit. 2;H315	[1]
Propylene Glycol CAS Number: 0000057-55-6	1.0 - 10	Not Classified	[1]
Cumene hydroperoxide CAS Number: 0000080-15-9	1.0 - 10	Org. Perox. E;H242 Acute Tox. 3;H331 Acute Tox. 4;H312 Acute Tox. 4;H302 STOT RE 2;H373 Skin Corr. 1B;H314 Aquatic Chronic 2;H411	[1]
Benzisothiazol-3(2H)-one, 1,1-dioxide CAS Number: 0000081-07-2	1.0 - 10	Not Classified	[1]
Amorphous fumed silica CAS Number: 0112945-52-5	1.0 - 10	Combustible Dust	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Safety Data Sheet

Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



Inhalation	Never give anything by mouth to an unconscious person. Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview	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 eye irritation. Ingestion: May cause gastrointestinal tract irritation if swallowed. See section 2 for further details.
Inhalation	Harmful if inhaled. May cause respiratory irritation.
Eyes	Causes serious eye damage.
Skin	May cause an allergic skin reaction. Causes skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Water spray (fog), foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.

Hazardous decomposition: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Safety Data Sheet

Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



Put on appropriate personal protective equipment (see section 8).

Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.

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. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. Handling and storage

7.1. Precautions for safe handling

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

For safe storage, store between 0 °C (32°F) and 32 °C (89.6 °F) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

Incompatible materials: Strong oxidizing agents. Free radical initiators. Strong reducing agents. Alkalis. Oxygen scavengers. Other polymerization initiators. Copper. Iron. Zinc. Aluminum. Rust.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

Safety Data Sheet

Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000057-55-6	Propylene Glycol	OSHA	No Established Limit
		ACGIH	TWA(Aerosol): 10 mg/m3
		NIOSH	No Established Limit
		Supplier	10 mg/m3 TWA (listed as AIHA WEEL)
0000080-15-9	Cumene hydroperoxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0000081-07-2	Benzisothiazol-3(2H)-one, 1,1-dioxide	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0112945-52-5	Amorphous fumed silica	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
Proprietary	Polyglycol dimethacrylate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
Proprietary	Polyglycol oleate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000057-55-6	Propylene Glycol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000080-15-9	Cumene hydroperoxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

Safety Data Sheet

Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



0000081-07-2	Benzisothiazol-3(2H)-one, 1,1-dioxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0112945-52-5	Amorphous fumed silica	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Proprietary	Polyglycol dimethacrylate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Proprietary	Polyglycol oleate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory

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

Eyes

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

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

Engineering Controls

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

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance

Blue Liquid

Odor

Mild

Odor threshold

Not determined

pH

Not Measured

Melting point / freezing point

Not Measured

Initial boiling point and boiling range

>149C(>300.2F)

Flash Point

>93.3C(>199.94F)

Evaporation rate (Ether = 1)

Not Measured

Safety Data Sheet

Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 2.6%(Propylene Glycol) Upper Explosive Limit: 12.5%(Propylene Glycol)
Vapor pressure (Pa)	< 5 mmHg (27C)
Vapor Density	Not Measured
Specific Gravity	1.1 @ 23.9C
Solubility in Water	Slight
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC Content	0.56%; 6.17 g/l

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents. Free radical initiators. Strong reducing agents. Alkalis. Oxygen scavengers. Other polymerization initiators. Copper. Iron. Zinc. Aluminum. Rust.

10.6. Hazardous decomposition products

Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapors.

Safety Data Sheet

Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Polyglycol dimethacrylate - (Proprietary)	No data available	No data available	No data available	No data available	No data available
Polyglycol oleate - (Proprietary)	No data available	No data available	No data available	No data available	No data available
Propylene Glycol - (57-55-6)	20,000.00, Rat - Category: NA	20,800.00, Rabbit - Category: NA	105.00, Rat - Category: NA	No data available	No data available
Cumene hydroperoxide - (80-15-9)	382.00, Rat - Category: 4	500.00, Rabbit - Category: 3	No data available	No data available	220.00, Rat - Category: 2
Benzisothiazol-3(2H)-one, 1,1-dioxide - (81-07-2)	No data available	No data available	No data available	No data available	No data available
Amorphous fumed silica - (112945-52-5)	3,160.00, Rat - Category: 5	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	4	Harmful if inhaled.
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	3	May cause respiratory irritation.
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.

Safety Data Sheet

Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



Aspiration hazard	---	Not Applicable
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12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Polyglycol dimethacrylate - (Proprietary)	Not Available	Not Available	Not Available
Polyglycol oleate - (Proprietary)	Not Available	Not Available	Not Available
Propylene Glycol - (57-55-6)	40,613.00, Oncorhynchus mykiss	18,340.00, Ceriodaphnia dubia	19,000.00 (96 hr), Pseudokirchneriella subcapitata
Cumene hydroperoxide - (80-15-9)	3.90, Oncorhynchus mykiss	7.00, Daphnia magna	Not Available
Benzisothiazol-3(2H)-one, 1,1-dioxide - (81-07-2)	Not Available	Not Available	Not Available
Amorphous fumed silica - (112945-52-5)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Safety Data Sheet
Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Regulated	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user	No further information		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	B3 D2B E
US EPA Tier II Hazards	Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): Yes
EPCRA 311/312 Chemicals and RQs (lbs):	
	Benzisothiazol-3(2H)-one, 1,1-dioxide (100.00)
	Cumene hydroperoxide (10.00)
EPCRA 302 Extremely Hazardous:	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 313 Toxic Chemicals:	
	Benzisothiazol-3(2H)-one, 1,1-dioxide
	Cumene hydroperoxide

Safety Data Sheet
Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



Proposition 65 - Carcinogens (>0.0%):

Cumene

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Benzisothiazol-3(2H)-one, 1,1-dioxide

Cumene hydroperoxide

Propylene Glycol

Pennsylvania RTK Substances (>1%):

Benzisothiazol-3(2H)-one, 1,1-dioxide

Cumene hydroperoxide

Propylene Glycol

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Safety Data Sheet
Loctite Threadlocker #242 Blue

SDS Revision Date:

07/28/2015



The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material in any process, unless specified in the text.

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