# SAFETY DATA SHEET

### 1. Identification

**Product identifier** Blue Liquid Medium Strength 242 Threadlocker

Other means of identification

**Synonyms** 24200, 24209, 24240, 24242, 24250, 24225

Thread Locking Compound Recommended use

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**ITW Permatex Canada** Company name c/o ITW Global Brands Canada **Address** 2360 Bristol Circle, Suite 101

Oakville, ON L6H 6M5

**Telephone** 905-693-8900 Not available. e-mail 1-877-504-9352 **Emergency phone number Supplier** See above.

### 2. Hazard identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2 Carcinogenicity Category 2

Specific target organ toxicity following single

exposure

Category 3 respiratory tract irritation

Category 2

Specific target organ toxicity following repeated exposure

**Environmental hazards** Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes skin irritation.

> Causes serious eye irritation. Suspected of causing cancer. May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement** 

Prevention Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist or vapour.

Use only outdoors or in a well-ventilated area.

Wash thoroughly after handling.

Wear protective gloves, protective clothing, eye protection and face protection.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off Response

contaminated clothing and wash it before reuse. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTRE if you feel unwell.

IF exposed or concerned: Get medical attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of container in accordance with local, regional, national and international regulations. Disposal

Other hazards None known.

## 3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Benzene, (1-methylethyl)-		98-82-8	0.1 - 1 *
Hydroperoxide, 1-methyl-1-phenylethyl		80-15-9	1 - 5 *
Poly(oxy-1,2-ethanediyl), .alpha(1-oxo-9-octadecenyl)ome gahydroxy-, (Z)-		9004-96-0	10 - 30 *
Polyethylene glycol methacrylate		25852-47-5	45 - 70 *
Titanium oxide		13463-67-7	0.1 - 1 *

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** 

\*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret

·	trade secret.	
4. First-aid measures		
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.	
Skin contact	IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label).	
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.	
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause respiratory irritation. Prolonged exposure may cause chronic effects.	
Indication of immediate medical attention and special treatment needed	Symptoms may be delayed.	
General information	IF exposed or concerned: Get medical attention. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.	
	5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide.	
Unsuitable extinguishing	Not available.	

media During fire, gases hazardous to health may be formed. Specific hazards arising from the chemical May include and are not limited to: Oxides of carbon. **Hazardous combustion** products Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Special protective equipment and precautions for firefighters Fire fighting Move containers from fire area if you can do so without risk. equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods General fire hazards No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapour. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Never return spills in original containers for re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Do not discharge into lakes, streams, ponds or public waters.

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## 7. Handling and storage

Precautions for safe handling Avoid contact with eyes, skin, and clothing.

Wear appropriate personal protective equipment.

Do not breathe mist or vapour. Provide adequate ventilation. Avoid prolonged exposure.

Observe good industrial hygiene practices.

Wash thoroughly after handling. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities Store away from incompatible materials (see Section 10 of the SDS).

Value

Keep out of reach of children.

Store locked up.

## 8. Exposure controls/Personal protection

### Occupational exposure limits

### **US. ACGIH Threshold Limit Values**

Components	туре	value
Benzene, (1-methylethyl)- (CAS 98-82-8)	TWA	50 ppm
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3

### Canada, Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Odnada. Alberta OLLS (Occupational ricatifi & odicty occupation, rabic 2)			
Components	Туре	Value	
Benzene, (1-methylethyl)- (CAS 98-82-8)	TWA	246 mg/m3	
,		50 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Benzene, (1-methylethyl)- (CAS 98-82-8)	STEL	75 ppm	
	TWA	25 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
,		10 mg/m3	Total dust.

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	
Benzene, (1-methylethyl)- (CAS 98-82-8)	TWA	50 ppm	
Titanium oxide (CAS	TWA	10 mg/m3	

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value
Benzene, (1-methylethyl)- (CAS 98-82-8)	TWA	50 ppm
Titanium oxide (CAS	TWA	10 mg/m3

Ensure adequate ventilation.

## Canada. Quebec OELs. (Ministry of Labour - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	Form
Benzene, (1-methylethyl)- (CAS 98-82-8)	TWA	246 mg/m3	
,		50 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.

### **Biological limit values**

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

#30057 Page: 3 of 8 Issue date 02-January-2019 Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Natural or butyl rubber, nitrile or neoprene gloves. Hand protection

As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

> Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practices. Wash hands before

breaks and immediately after handling the product. When using do not eat or drink.

# 9. Physical and chemical properties

Liquid **Appearance** Liquid. Physical state **Form** Liquid. Blue Colour Odour Mild

Not available. **Odour threshold** Not available. pН Not available. Melting point/freezing point

Initial boiling point and boiling

> 149 °C (> 300.2 °F)

range

Flash point > 93.0 °C (> 199.4 °F)

Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Explosive limit - lower (%)

Explosive limit - upper (%)

Not available. Not available.

Vapour pressure Not available. > 1 (Air = 1)Vapour density

Relative density 1 - 1.15

Solubility(ies)

Solubility (Water) Not available. Not available. Partition coefficient

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

## 10. Stability and reactivity

Reactivity May react with incompatible materials. Material is stable under normal conditions. **Chemical stability** Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Do not mix with other chemicals. Conditions to avoid

Incompatible materials Strong oxidising agents.

## 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Not available.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** May cause stomach distress, nausea or vomiting.

Symptoms related to the physical, chemical and

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision.

toxicological characteristics Skin irritation. May cause redness and pain.

May cause respiratory irritation.

Information on toxicological effects

**Acute toxicity** May cause respiratory irritation.

Components Species Test results

Benzene, (1-methylethyl)- (CAS 98-82-8)

Acute

Dermal

LD50 Rabbit > 3160 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Mouse 2000 ppm, 7 Hours, HSDB

24.7 mg/L, 2 Hours, HSDB 10 mg/L, 7 Hours, ECHA

Rat 8000 ppm, 4 Hours, HSDB

Oral

LD50 Rat 2700 mg/kg, ECHA

2260 mg/kg, ECHA 2.9 g/kg, HSDB

Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9)

Acute

Dermal

LD50 Rat 1.1 - 1.4 ml/kg, HSDB

500 mg/kg, HSDB

1.1 ml/kg

0.5 ml/kg, HSDB

Inhalation

LC50 Mouse 200 mg/L, 4 Hours, HSDB

Oral

LD50 Rat 382 mg/kg, HSDB

Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxy-, (Z)- (CAS 9004-96-0)

Acute

Dermal

LC50 Rabbit > 500 mg/kg, 24 Hours, Spectrum

Chemicals

Inhalation

LC50 Not available

Oral

LD50 Mouse > 2500 mg/kg, Spectrum Chemicals

Polyethylene glycol methacrylate (CAS 25852-47-5)

Acute

Dermal

LD50 Not available

Inhalation

LC50 Not available

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Components Species Test results

Oral

LD50 Not available

Titanium oxide (CAS 13463-67-7)

**Acute** *Dermal* 

LD50 Not available

Inhalation

LC50 Rat > 6.8 mg/L, 4 Hours, ECHA

> 3.6 mg/l/4h, ECHA

> 3.6 mg/L, 4 Hours, ECHA > 2.3 mg/L, 4 Hours, ECHA 5.1 mg/L, 4 Hours, ECHA 3.4 mg/L, 4 Hours, ECHA

Oral

LD50 Mouse > 5000 mg/kg, ECHA

Rat > 25000 mg/kg, ECHA

> 11000 mg/kg, ECHA> 5000 mg/kg, ECHA> 2000 mg/kg, ECHA

Skin corrosion/irritation Causes skin irritation.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Corneal opacity valueNot available.Iris lesion valueNot available.Conjunctival reddeningNot available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

Titanium oxide (CAS 13463-67-7) Irritant

**Respiratory sensitisation** Not a respiratory sensitizer.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity See below.

**ACGIH Carcinogens** 

Titanium oxide (CAS 13463-67-7)

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Titanium dioxide (CAS 13463-67-7)

Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene, (1-methylethyl)- (CAS 98-82-8)

Volume 101 - 2B Possibly carcinogenic to humans.

Titanium oxide (CAS 13463-67-7) Volume 47, Volume 93 - 2B Possibly carcinogenic to humans.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged exposure may cause chronic effects.

Further information Not available.

12. Ecological information				
Ecotoxicity	See below			
Ecotoxicological data Components		Species	Test results	
Benzene, (1-methylethyl)- (CAS	98-82-8)			
Algae	IC50	Algae	2.6 mg/L, 72 Hours	
Crustacea	EC50	Daphnia	0.6 mg/L, 48 Hours	
Aquatic				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.7 mg/L, 96 hours	
Titanium oxide (CAS 13463-67-7	7)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/L, 48 hours	
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/L, 96 hours	
Persistence and degradability	No data is a	vailable on the degradability of this produc	et.	
Bioaccumulative potential				
Mobility in soil	No data ava	ilable.		
Mobility in general	Not available	e.		
Other adverse effects		verse environmental effects (e.g. ozone de docrine disruption, global warming potenti		
	potential, en	docrine disruption, global warming potenti	al) are expected from this component.	

13. Dispos	al consi	derations	;
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Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal instructions** Local disposal regulations Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

General

Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

### **Transportation of Dangerous Goods (TDG - Canada)**

Not regulated as dangerous goods.

## 15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Yes

Canada CEPA Schedule I: Listed substance

Titanium oxide (CAS 13463-67-7) Listed. Canada Priority Substances List (Second List): Listed substance

Titanium oxide (CAS 13463-67-7) Listed

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

WHMIS status Controlled

International regulations

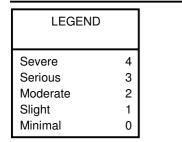
Inventory status

Country(s) or region **Inventory Name** On Inventory (Yes/No)\*

Canada Domestic Substances List (DSL)

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### 16. Other information



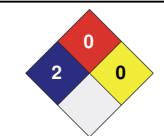
HEALTH \* 2

FLAMMABILITY 0

PHYSICAL HAZARD 0

PERSONAL X

PROTECTION X



Issue date Revision date

02-January-2019

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02-January-2019

Version No.
Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

Disclaimer

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