SAFETY DATA SHEET

	1. Identification		
Product identifier	Blue Gel Medium Strength 242 Threadlock	er	
Other means of identification			
Synonyms	24215, 24235		
Recommended use	Thread Locking Compound		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier Manufacturer	r/Distributor information		
Company name Address	ITW Permatex Canada c/o ITW Global Brands Canada 2360 Bristol Circle, Suite 101 Oakville, ON L6H 6M5		
Telephone	905-693-8900		
e-mail	literature.canada@permatex.com		
Emergency phone number	1-877-504-9352		
Supplier	See above.		
	2. Hazard identification	1	
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	
	Specific target organ toxicity following repeated exposure	Category 2	
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 prolor	nged or repeated exposure.	
Precautionary statement	.,	5	
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.		
Response	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). 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 contain	er tightly closed. Store locked up.	
-	Dispose of container in accordance with local, regional, national and international regulations.		
Disposal	Dispuse of container in accordance with local		

Exempt - Consumer product

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, or any consumer product as defined in section 2 of the Canada Consumer Product Safety Act.

Consult the product label for special protection or precautions that have been identified for using this product under directed use conditions.

3. Composition/information on ingredients

	3. composition/information on i	ingreatents	
Mixtures Chemical name		CAS number	0/
	Common name and synonyms	98-82-8	%
Benzene, (1-methylethyl)-			0.1 - 1 *
Hydroperoxide, 1-methyl-1-phenylethyl		80-15-9	1 - 5 *
Polyethylene glycol methacrylat	e	25852-47-5	30 - 60 *
Titanium oxide		13463-67-7	0.1 - 1 *
All concentrations are in percent by	y weight unless ingredient is a gas. Gas conce	ntrations are in percent by v	olume.
Composition comments	*CANADA GHS: The exact percentage (conc trade secret.	entration) of composition ha	s been withheld as a
	4. First-aid measures	5	
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 ski contaminated clothing and wash it before reu	in irritation occurs: Get medi ise. Specific treatment (see	cal attention. Take off information on this label)
Eye contact	IF IN EYES: Rinse cautiously with water for s and easy to do. Continue rinsing. If eye irritat		
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 attent material(s) involved and take precautions to doctor in attendance. Avoid contact with eyes	protect themselves. Show th	is safety data sheet to th
	5. Fire-fighting measure	es	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carl	oon dioxide.	
Unsuitable extinguishing media	Not available.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		
Hazardous combustion products	May include and are not limited to: Oxides of carbon.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and cor	nsider the hazards of other ir	volved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
	6. Accidental release meas	sures	
Personal precautions, protective equipment and	Keep unnecessary personnel away. Do not to wearing appropriate protective clothing. Do n ventilation. Local authorities should be advise	ot breathe mist or vapour. E	nsure adequate

emergency procedures

ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

thods and materials for ntainment 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. Following product recovery, flush area with water. Never return spills in original containers for re-use. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.		
vironmental precautions	Do not discharge into lakes, streams,	ponds or public waters.	
	7. Handling and s	storage	
ecautions for safe handling	Do not breathe mist or vapour. Provide adequate ventilation. Avoid contact with eyes, skin, and clo Wear appropriate personal protective Avoid prolonged exposure. Observe good industrial hygiene prace Wash thoroughly after handling. When using do not eat or drink.	equipment.	
nditions for safe storage, luding any incompatibilities	Store away from incompatible materia Keep out of reach of children. Store locked up.	als (see Section 10 of the SDS	6).
	8. Exposure controls/Pers	sonal protection	
cupational exposure limits			
US. ACGIH Threshold Limit Components	Values Type	Value	
Benzene, (1-methylethyl)-	TWA	50 ppm	
(CAS 98-82-8) Titanium oxide (CAS	TWA	10 mg/m3	
13463-67-7)		·	
Canada. Alberta OELs (Occo Components	upational Health & Safety Code, Sche Type	edule 1, Table 2) Value	
Benzene, (1-methylethyl)- (CAS 98-82-8)	TWA	246 mg/m3	
		50 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	
·	ELs. (Occupational Exposure Limits	for Chemical Substances, C	Occupational Health and
Components	Туре	Value	Form
Benzene, (1-methylethyl)- (CAS 98-82-8)	STEL	75 ppm	
(070 30-02-0)	TWA	25 ppm	
Titanium oxide (CAS	TWA	3 mg/m3	Respirable fraction.
13463-67-7)		10 mg/m3	Total dust.
Canada. Manitoba OELs (Re Components	g. 217/2006, The Workplace Safety A Type	nd Health Act) Value	
Benzene, (1-methylethyl)- (CAS 98-82-8)	TWA	50 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Ontario OELs. (Cor Components	ntrol of Exposure to Biological or Che Type	emical Agents) Value	
Benzene, (1-methylethyl)- (CAS 98-82-8)	TWA	50 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Quebec OELs. (Min Components	istry of Labour - Regulation Respect Type	ing the Quality of the Work Value	Environment) Form
Benzene, (1-methylethyl)- (CAS 98-82-8)	TWA	246 mg/m3	
		50 ppm	

Canada. Quebec OELs. (Mi Components	Туре	Value	Form
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	Ensure adequate ventilation.		
Individual protection measures	, such as personal protective equipme	ent	
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection			
Hand protection	Natural or butyl rubber, nitrile or neopr	ene gloves.	
Other	As required by employer code.		
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. 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 indus breaks and immediately after handling		

	9. Physical and chemical properties		
Appearance	Gel.		
Physical state	Liquid.		
Form	Liquid.		
Colour	Blue		
Odour	Mild		
Odour threshold	Not available.		
рН	Not available.		
Melting point/freezing point	Not available.		
Initial boiling point and boiling range	> 150 °C (> 302 °F)		
Flash point	> 95.0 °C (> 203.0 °F)		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or exp	losive limits		
Flammability limit - lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		
Explosive limit – upper (%)	Not available.		
Vapour pressure	Not available.		
Vapour density	Not available.		
Relative density	1.11 - 1.15		
Solubility(ies)			
Solubility (Water)	Not available.		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	Not available.		
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.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause respiratory tract irritation. Prolonged inhalation may be harmful.
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 toxicological characteristics	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.

Information on toxicological effects

Acute toxicity		
Components	Species	Test results
Benzene, (1-methylethyl)- (C	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-p	ohenvlethvl (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		0.0 m//kg, 10000
LC50	Mouse	200 mg/L, 4 Hours, HSDB
Oral	Wedge	
LD50	Rat	382 mg/kg, HSDB
Polyethylene glycol methacr		
Acute	yiale (UNS 20002-47-5)	
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	

Components	Species	Test results
<i>Oral</i> 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		5000 // 5010
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 minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value		
Recover days	Not available.	
Respiratory or skin sensitisation		
Canada - Alberta OELs: Irrita Titanium oxide (CAS 134		Irritant
Respiratory sensitisation	Not a respiratory sensitizer.	intent
Skin sensitisation	This product is not expected to	o 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 134 Canada - Manitoba OELs: ca		A4 Not classifiable as a human carcinogen.
Titanium dioxide (CAS 13 IARC Monographs. Overall I	463-67-7) Evaluation of Carcinogenicity	Not classifiable as a human carcinogen.
Benzene, (1-methylethyl)		Volume 101 - 2B Possibly carcinogenic to humans.
Titanium oxide (CAS 134		Volume 47, Volume 93 - 2B Possibly carcinogenic to humans.
Reproductive toxicity		o 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	se chronic effects.
Further information	Not available.	

12. Ecological information

Faataviaity	Cook-l-			
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 Aquatic	<i>(</i>)			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/L, 48 hours	
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/L, 96 hours	
Persistence and degradability Bioaccumulative potential	No data is a	available on the degradability of this produc	it.	
Mobility in soil	No data ava	ailable.		
Mobility in general	Not availab	le.		
Other adverse effects		dverse environmental effects (e.g. ozone de ndocrine disruption, global warming potenti		
		13. Disposal considerations		
Disposal instructions	Dispose of	contents/container in accordance with loca	l/regional/national/international regulations.	
Local disposal regulations	Dispose in	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste 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 Transportation of Dangerous G	2.1 – 2.8 of name and t	DG Proof of Classification: Classification Me the Transportation of Dangerous Goods R he classification of the product will appear Canada)	egulations. If applicable, the technical	
Not regulated as dangerous	goods.			
		15. Regulatory information		
Canadian federal regulations	Exempt- consumer product This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II doe not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, or any consumer product as defined in section 2 of the Canada Consumer Product Safety Act.			
Canada CEPA Schedule I:	Listed substa	nce		
Titanium oxide (CAS 13	,	Listed.		
Canada Priority Substance Titanium oxide (CAS 13	-	d List): Listed substance Listed.		
Export Control List (CEPA Not listed.				
Greenhouse Gases				
Not listed.				
Precursor Control Regulat	ions			
Not regulated.	_			
WHMIS status	Exempt			
International regulations				

Inventory status

Canada

Country(s) or region

Inventory Name

Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL) Canada *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

	16. Other information	
LEGEND	HEALTH * 2	
Severe 4	FLAMMABILITY 0 2 0	
Serious3Moderate2	PHYSICAL HAZARD 0	
Slight 1 Minimal 0	PERSONAL X	
Issue date	21-January-2019	
Revision date	21-January-2019	
Version No.	01	
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.	
Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.	
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