# SAFETY DATA SHEET

### 1. Identification

**Product identifier Permatex High Temperature Thread Sealant** 

Other means of identification

59206, 59234, 59225 Product code

sealant Recommended use **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**ITW Permatex Canada** Company name 2360 Bristol Circle Suite 101 **Address** 

Oakville, ON L6H 6M5

Canada

**Telephone** 1-905-693-8900

literature.canada@permatex.com 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 2A Carcinogenicity Category 2

Specific target organ toxicity following single

exposure

Category 3 respiratory tract irritation

Specific target organ toxicity following

repeated exposure

Not classified.

Category 2

**Environmental hazards** 

Label elements



Signal word Warning

**Hazard statement** Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Suspected of

causing cancer. 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. Wash thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Do not breathe mist or vapour. Use only outdoors or in a

well-ventilated area.

IF ON SKIN: Wash with plenty of water. Specific treatment (see information on this label). If skin Response

irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. 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.

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

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

Other hazards None known.

### Supplemental information

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

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
1-Octanol		111-87-5	5 - 10*
Cumene		98-82-8	0.1 - 1*
Hydroperoxide, 1-methyl-1-phenylethyl		80-15-9	1 - 5*
Polyethylene glycol methacrylate		25852-47-5	30 - 60*
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.

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Inhalation

IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.

Skin contact

IF ON SKIN: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

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. Obtain medical attention.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically.

IF exposed or concerned: Get medical advice. If you feel unwell, seek medical advice (show the label where possible). 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 media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Move containers from fire area if you can do so without risk.

equipment/instructions Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

#31093 Page: 2 of 8 Issue date 21-August-2019

# 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. Following product recovery, flush area with water. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

# **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

### 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

# Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

## 8. Exposure controls/Personal protection

### Occupational exposure limits

110	ACCIH	<b>Threshold</b>	Limit \	/alune
US.	ACGIR	Threshold	LIIIIII '	vaiues

Components	Туре	Value	
Cumene (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)

Components	Туре	Value
Cumene (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	, Type	Value	Form
Cumene (CAS 98-82-8)	STEL	75 ppm	
	TWA	25 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
10 100 07 7)		10 mg/m3	Total dust

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

Components	Туре	Value	
Cumene (CAS 98-82-8)	TWA	50 ppm	
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3	

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

Components	Туре	Value
Cumene (CAS 98-82-8)	TWA	50 ppm
Titanium oxide (CAS 13463-67-7)	TWA	10 mg/m3

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

Components	Туре	Value	Form
Cumene (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

Appropriate engineering

controls

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

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#31093 Page: 3 of 8 Issue date 21-August-2019

Individual protection measures, such as personal protective equipment

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

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Confirm with a reputable supplier first.

**Other** Wear appropriate chemical resistant clothing. 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

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants. When using do not eat or drink.

### 9. Physical and chemical properties

AppearancePaste.Physical stateLiquid.FormLiquid.ColourWhiteOdourMild

Odour thresholdNot available.pHNot available.Melting point/freezing pointNot available.

Initial boiling point and boiling

range

> 200 °C (> 392 °F)

Flash point 131.0 °C (267.8 °F)

Evaporation rate Not available.

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.

( / 0 /

Vapour pressure> 39.8 mm HgVapour densityNot available.Relative density1.16 - 1.26

Solubility(ies)

Solubility (Water) Immiscible

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties

Oxidising properties

Not explosive.

Not oxidising.

VOC (Weight %)

0.75 %

7.5 g/L

### 10. Stability and reactivity

**Reactivity** This product may react with strong oxidising agents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

#31093 Page: 4 of 8 Issue date 21-August-2019

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 damage to organs through prolonged or repeated exposure by inhalation. May cause

irritation to the respiratory system.

**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

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

Information on toxicological effects

**Acute toxicity** May cause respiratory irritation.

Components **Test results Species** 1-Octanol (CAS 111-87-5) Acute Dermal LD50 Guinea pig > 500 mg/kg, HSDB Rabbit > 5 g/kg, HSDB 2000 - 4000 mg/kg, 24 Hours, ECHA Inhalation LC50 Not available Oral LD50 Mouse 1800 mg/kg, HSDB Rat > 5000 mg/kg > 5 g/kg, HSDB 18240 mg/kg, ECHA >= 5000 mg/kg, ECHA Cumene (CAS 98-82-8) **Acute** Dermal LD50 Rabbit > 3160 mg/kg, 24 Hours, ECHA Inhalation LC50 2000 ppm, 7 Hours, HSDB Mouse 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, HSDB 0.5 ml/kg, HSDB Inhalation 200 mg/L, 4 Hours, HSDB LC50 Mouse

#31093 Page: 5 of 8 Issue date 21-August-2019

Components **Species Test results** 

Oral

382 mg/kg, HSDB LD50 Rat

Polyethylene glycol methacrylate (CAS 25852-47-5)

**Acute** Dermal

LD50 Not available

Inhalation

LC50 Not available

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

> 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

> > 25000 mg/kg, ECHA Rat

> > > 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. 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: 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.

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

mutagenic or genotoxic.

Suspected of causing cancer. See below. Carcinogenicity

**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

Cumene (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** May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful. Prolonged exposure may cause chronic effects.

**Further information** Not available.

# 12. Ecological information

See below **Ecotoxicity** 

**Ecotoxicological data** Components

**Species Test results** 

1-Octanol (CAS 111-87-5)

Aquatic

LC50 Fish Fathead minnow (Pimephales promelas) 12.3 - 13.4 mg/L, 96 hours

Cumene (CAS 98-82-8)

Algae IC50 Algae 2.6 mg/L, 72 Hours FC50 Crustacea Daphnia 0.6 mg/L, 48 Hours

Aquatic

Fish LC50 Rainbow trout, donaldson trout 2.7 mg/L, 96 hours

(Oncorhynchus mykiss)

Titanium oxide (CAS 13463-67-7)

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

**Bioaccumulative potential** 

No data is available on the degradability of this product.

No data available. Mobility in soil Mobility in general Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Contaminated packaging

Disposal instructions). 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.

### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

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.

#31093 Page: 7 of 8 Issue date 21-August-2019 Canada CEPA Schedule I: Listed substance

Titanium oxide (CAS 13463-67-7)

Titanium oxide (CAS 13463-67-7) Listed.

Canada Priority Substances List (Second List): Listed substance

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) Non-Domestic Substances List (NDSL) Canada No

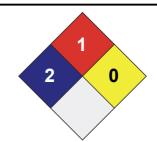
Listed.

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other information







Issue date 21-August-2019 **Revision date** 21-August-2019 **Effective date** 06-August-2019

Version No.

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

document.

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