

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: PERMATEX® High Temperature Thread Sealant - 50 ml

tube, carded

59235 Product Code: Stock No.: 59235

Manufacturer Name: Permatex, Inc. Address: 10 Columbus Blvd Hartford, CT 06106

General Phone Number:

1-87-Permatex, (877) 376-2839 800-255-3924

Emergency Phone

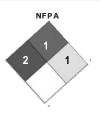
Number:

CHEMTREC:

For emergencies in the US, call CHEMTREC: 800-424-

MSDS Creation Date: August 12, 2010 MSDS Revision Date: December 30, 2012

(M)SDS Format:



HMIS		
Health Hazard	2	
Fire Hazard	1	
Reactivity	1	
Personal Protection	x	

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Cumene hydroperoxide	80-15-9	<2 by weight
Titanium dioxide	13463-67-7	<3 by weight
Amorphous silicon dioxide	67762-90-7	<5 by weight
Te flo n	9002-84-0	<5 by weight
Octanol	111-87-5	<10 by weight
Tetraethylene Glycol Hexoate	18268-70-7	<20 by weight
Mica	12001-26-2	10 - 30 by weight
Polyethylene glycol dimethacrylate	25852-47-5	20 - 40 by weight
Polyester resin mixture	N/A	10 - 30 by weight
1,2-propanediol	57-55-6	<3 by weight

## SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION! Harmful, Irritant,

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Can cause moderate irritation, burning sensation, tearing, redness, Eye:

and swelling. Overexposure may cause lacrimation, conjunctivitis,

corneal damage and permanent injury.

Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. May cause skin sensitization, an allergic reaction, which Skin:

becomes evident on reexposure to this material

Inhalation: Respiratory tract irritant. High concentration may cause dizziness,

headache, and anesthetic effects.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Prolonged skin contact may lead to burning associated with severe

Chronic Health Effects: reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Individuals with pre-existing skin disorders, asthma, allergies or known Conditions: sensitization may be more susceptible to the effects of this product.

## SECTION 4: FIRST AID MEASURES

Immediately flush eyes with plenty of water for at least 15 to 20 Eve Contact:

minutes. Ensure adequate flushing of the eyes by separating the

eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes.

respiration or give oxygen by trained personnel. Seek immediate

medical attention.

If swallowed, do NOT induce vomiting. Call a physician or poison control Ingestion:

center immediately. Never give anything by mouth to an unconscious

person.

## SECTION 5: FIRE FIGHTING MEASURES

Flash Point: >200°F (93.3°C)

Flash Point Method: Tag closed cup (TCC)

Auto Ignition Temperature: Not determined.

Lower Flammable/Explosive Limit:

Not determined

Upper Flammable/Explosive

Not determined.

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool

fire exposed containers to minimize risk of rupture. Do not ente confined fire space without full protective gear. If possible, contain fire

run-off water.

Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA),

MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire Hazards:

Hazardous Combustion By products:

Oxides of carbon and other unknown organic compounds. Irritating fumes and gases may be released upon thermal processing or during

combustion.

#### NFPA Ratings:

NFPA Health: 2 NFPA Flammability: NFPA Reactivity: 1

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Personne | Precautions: Evacuate area and keep unnecessary and unprotected personnel from

entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways

Spill Cleanup Measures: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills

immediately observing precautions in the protective equipment section.

After removal, flush spill area with soap and water to remove trace

residue.

Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.

Other Precautions: Pump or shovel to storage/salvage vessels. Add inhibitor to prevent

polymerization.

## SECTION 7: HANDLING and STORAGE

Handlina: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

Store in a cool, dry, well ventilated area away from sources of heat and Storage:

incompatible materials. Keep container tightly closed when not in use.

Special Handling Procedures: Provide appropriate ventilation/respiratory protection against

decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured

Hygiene Practices: Wash thoroughly after handling.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation

should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the Eve/Face Protection:

prevent skin contact. Consult manufacturer's data for permeability

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor

cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate

protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an

eyewash and a deluge shower safety station.

#### EXPOSURE GUIDELINES

<u>Titanium dioxide</u>:

Guideline ACGIH: 10 mg/m3

TLV-TWA: 10 mg/m3

Mica:

Guideline ACGIH:

3 mg/m3 TLV-TWA: 3 mg/m3 Respirable fraction (R)

Guideline OSHA: 20 mppcf

PEL-TWA: 20 mppcf

Notes: Only established PEL and TLV values for the ingredients are listed.

## SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste. Color: White Odor: Mild

Boiling Point: >300°F (148.8°C) Melting Point: Not determined. Specific Gravity: 1.16-1.26 Solubility: Insoluble Vapor Density: >1 (air=1) Vapor Pressure: Not determined. Evaporation Rate: Not determined. Not determined.

Molecular Formula: Mixture Molecular Weight: Mixture

Flash Point: >200°F (93.3°C) Flash Point Method: Tag closed cup (TCC) Auto Ignition Temperature: Not determined.

VOC Content: < 3%

# SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.

Incompatible Materials: Strong oxidizers, Metal salts, heat and amines

## SECTION 11: TOXICOLOGICAL INFORMATION

#### Cumene hydroperoxide:

RTECS Number: MX2450000

Eye - Rabbit Standard Draize test.: 1 mg Eye - Rabbit Standard Draize test.: 70% Eye:

Skin:

Administration onto the skin - Rat : 500 mg/kg [Behavioral -Convulsions or effect on seizure threshold Kidney/Ureter/Bladder -

Hematuria] Administration onto the skin - Rabbit : 1200 mg/kg [Cardiac - Pulse rate increase, without fall in BP Blood - changes in erythrocyte (RBC) count Nutritional and Gross Metabolic - Body temperature decrease] Administration onto the skin - Mouse : 490 mg/kg [Details of toxic

effects not reported other than lethal dose value] Administration onto the skin - Mouse : 1200 mg/kg [Biochemical -Enzyme inhibition, induction, or change in blood or tissue levels -

Administration onto the skin - Rat : 250 mg/kg [Vascular - Structural changes in vessels Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of inflammation]

Administration onto the skin - Mouse : 300 mg/kg [Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of

Administration onto the skin - Mouse : 2012 mg/kg/2W (Intermittent) [Skin and Appendages - Tumors Biochemical - Metabolism

[Skin and Appendages - Tumors Biochemical - Metabolism (Intermediary) - Other proteins]
Administration onto the skin - Mouse: 20.1 gm/kg/20W (Intermittent)
[Skin and Appendages - Tumors Tumorigenic - Facilitates action of known carcinogen Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of inflammation]
Administration onto the skin - Mouse: 30442 ug/kg/4W (Intermittent)
[Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of inflammation]
Administration onto the skin - Mouse: 100 mg/kg

Administration onto the skin - Mouse : 100 mg/kg Administration onto the skin - Mouse: 100 mg/kg
Administration onto the skin - Rabbit: 500 mg
Administration onto the skin - Rabbit: 500 mg
Administration onto the skin - Mouse: 18000 ug/kg/18W
(Intermittent) [Tumorigenic - carcinogenic by RTECS criteria Skin and

Appendages - Tumors Tumorigenic - Facilitates action of known

carcinogen]

Inhalation: Inhalation - Rat LC50: 220 ppm/4H [Lungs, Thorax, or Respiration -

Dyspnea]

Inhalation - Mouse LC50: 200 ppm/4H [Lungs, Thorax, or Respiration -

Dyspneal

Ingestion:

Oral - Rat LD50: 382 mg/kg [Kidney/Ureter/Bladder - Hematuria] Oral - Mouse LD50: 342 mg/kg [Details of toxic effects not reported

other than lethal dose value]

Oral - Rat LD50: 800 mg/kg [Details of toxic effects not reported other

than lethal dose value]

Titanium dioxide:

RTECS Number: XR2275000

Skin: Administration onto the skin - Human : 300 ug/3D (Intermittent)

Carcinogenicity: IARC: Group 2B: Possibly carcinogenic to humans.

Amorphous silicon dioxide:

RTECS Number: VW 3234375

Teflon:

RTECS Number: KX4025000

Mica:

RTECS Number: VV8760000

1,2-propanediol:

RTECS Number: TY200000

Eye - Rabbit Standard Draize test.: 100 mg [mild] Eye:

Eye - Rabbit Standard Draize test.: 500 mg/24H [mild]

Skin: Administration onto the skin - Rabbit : 20800 mg/kg [Details of toxic

effects not reported other than lethal dose value]
Administration onto the skin - Rabbit : 20800 mg/kg [Behavioral

Ataxia Behavioral - Tetany Lungs, Thorax, or Respiration - Respiratory

depression1

Administration onto the skin - Human : 10 pph [Skin and Appendages

Administration onto the skin - Mouse: 1284800 mg/kg/2Y (Intermittent) [Skin and Appendages - Tumors] Administration onto the skin - Mouse: 1284800 mg/kg/2Y (Intermittent) [Skin and Appendages - Tumors] Administration onto the skin - Human: 5 mg/kg/7D (Intermittent) [Skin and Appendages - Primary irritation (After topical exposure)] Administration onto the skin - Human : 4.5 mg/kg/3D (Intermittent) [Skin and Appendages - Primary irritation (After topical exposure)] Administration onto the skin - : 0.03 mL/kg/22D (Intermittent) [Skin and Appendages - Cutaneous sensitization, experimental (After topical

exposure)]

Administration onto the skin - Human : 10 pph/48H (Continuous) and Appendages - Dermatitis, allergic (After topical exposure)] Administration onto the skin - Human : 500 mg/7D Administration onto the skin - Human : 104 mg/3D (Intermittent) Administration onto the skin - : 10 %/2D Administration onto the skin - : 30 %/96H (Continuous) Administration onto the skin - : 30 %/96H Administration onto the skin - Human : 10 pph/48H (Continuous) [Skin

Ingestion: Oral - Mouse LD50: 22 gm/kg [Details of toxic effects not reported

other than lethal dose value]

Oral - Mouse LD50: 20300 mg/kg [Behavioral - Ataxia Behavioral Tetany Lungs, Thorax, or Respiration - Respiratory depression]
Oral - Rat LD50: 20 gm/kg [Details of toxic effects not reported other

than lethal dose value]

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

applicable, to ensure compliance. Arrange disposal in accordance to the

EPA and/or state and local guidelines.

## SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated. DOT UN Number: Not applicable. DOT Hazard Class: Not applicable. DOT Packing Group: Not applicable.

## SECTION 15: REGULATORY INFORMATION

## Cumene hydroperoxide :

RCRA Number:

TSCA Inventory Status: Listed

EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed SARA:

New Jersey: Listed: NJ Hazardous List; Substance Number: 0543

Not determined.

Listed: Massachusetts Oil and Hazardous List Massachusetts:

Pennsylvania: Listed Canada DSL: Listed

<u>Titanium dioxide</u>:

TSCA Inventory Status: Listed Massachusetts: Listed Pennsylvania: Listed Canada DSL: Listed

Amorphous silicon dioxide:

TSCA Inventory Status: Listed Canada DSL: Listed

Teflon:

TSCA Inventory Status: Listed Pennsylvania: Listed Canada DSL: Listed

Mica:

Massachusetts: Listed Pennsylvania: Listed Canada DSL: Listed

# Polyethylene glycol dimethacrylate:

TSCA Inventory Status: Listed Canada DSL: Listed

1,2-propanediol:

TSCA Inventory Status: Listed Pennsylvania: Listed Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): D2B

 $\ensuremath{\mathsf{AII}}$  components of this product are on the Canadian Domestic Substances

WHMIS Pictograms:



#### SECTION 16: ADDITIONAL INFORMATION

MSDS Creation Date: August 12, 2010 MSDS Revision Date: December 30, 2012 MSDS Author: Actio Corporation

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept Disclaimer:

liability for any loss, injury or damage which may result from its use

chemicals should be handled only by competent personnel, within a controlled environment.

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