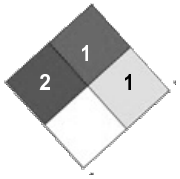
SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**PERMATEX® Surface Insensitive Threadlocker Blue - 50 ml bottle**
Product Code:	24350
Stock No.:	24350
Manufacturer Name:	Permatex, Inc.
Address:	10 Columbus Blvd. Hartford, CT 06106 USA
General Phone Number:	1-87-Permatex, (877) 376-2839
Emergency Phone Number:	800-255-3924
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300
MSDS Creation Date:	September 20, 2010
MSDS Revision Date:	December 30, 2012
(M)SDS Format:	

NFPA



HMIS

Health Hazard	**2**
Fire Hazard	**1**
Reactivity	**1**
Personal Protection	**X**

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Polyethylene	9002-88-4	<5 by weight
Polyethylene glycol dimethacrylate	25852-47-5	50 - 70 by weight
Vinyl acetate emulsion	9003-20-7	<5 by weight
Tetraethylene Glycol Hexoate	18268-70-7	10 - 20 by weight
1,2-propanediol	57-55-6	<5 by weight
Acrylic acid	79-10-7	0.1 - 1.0 by weight
Saccharin	81-07-2	<2 by weight
Cumene hydroperoxide	80-15-9	<2 by weight

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview:	CAUTION! Harmful. Irritant.
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.
Skin:	Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. May cause skin sensitization, an allergic reaction, which 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.
Chronic Health Effects:	Prolonged skin contact may lead to burning associated with severe 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 Conditions:	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 4 : FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 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. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate

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:	PMCC
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	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 enter 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 this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	None
Hazardous Combustion Byproducts:	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:	1
NFPA Reactivity:	1
NFPA Other:	

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personnel 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

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and 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 product.
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.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

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

Acrylic acid :

Guideline ACGIH:	2 ppm Skin: Yes TLV-TWA: 2 ppm
Notes :	Only established PEL and TLV values for the ingredients are listed.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Liquid.
Color:	blue
Odor:	Mild
Boiling Point:	>300°F (148.8°C)
Melting Point:	Not determined.
Specific Gravity:	1 - 1.15
Solubility:	Insoluble
Vapor Density:	>1 (air=1)
Vapor Pressure:	Not determined.
Evaporation Rate:	Not determined.
pH:	Not determined.
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	>200°F (93.3°C)
Flash Point Method:	PMCC
Auto Ignition Temperature:	Not determined.
VOC Content:	<2%

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, free radical initiators, inert gases, Peroxides

SECTION 11 : TOXICOLOGICAL INFORMATION

Polyethylene :

RTECS Number:	TQ3325000
Inhalation:	Inhalation - Rat LC50: 75.5 gm/m3/30M [Details of toxic effects not reported other than lethal dose value]
Ingestion:	Oral - Rat LD50: >8 gm/kg [Details of toxic effects not reported other than lethal dose value]

Vinyl acetate emulsion :

RTECS Number:	AK0920000
Ingestion:	Oral - Rat LD50: >25 gm/kg [Details of toxic effects not reported other than lethal dose value]

1,2-propanediol :

RTECS Number:	TY2000000
Eye:	Eye - Rabbit Standard Draize test.: 100 mg [mild] Eye - Rabbit Standard Draize test.: 500 mg/24H [mild]

Ataxia Behavioral - Tetany Lungs, Thorax, or Respiration - Respiratory depression]
Administration onto the skin - Human : 10 pph [Skin and Appendages - Dermatitis, allergic (After topical exposure)]
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) [Skin 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

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]

Acrylic acid :

RTECS Number:

AS4375000

Eye:

Eye - Rabbit Standard Draize test.: 1 mg
Eye - Rabbit Standard Draize test.: 250 ug/24H

Skin:

Administration onto the skin - Rabbit : 280 uL/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rabbit : 640 mg/kg [Cardiac - Cardiomegaly Lungs, Thorax, or Respiration - Acute pulmonary edema Skin and Appendages - Corrosive (After topical exposure)]
Administration onto the skin - Guinea pig : 5 pph/12W (Intermittent) [Skin and Appendages - Cutaneous sensitization, experimental (After topical exposure)]
Administration onto the skin - Rabbit : 500 mg
Administration onto the skin - Rabbit : 5 mg/24H
Administration onto the skin - Mouse : 37440 mg/kg/78W (Intermittent) [Tumorigenic - carcinogenic by RTECS criteria Blood - Leukemia]
Administration onto the skin - Mouse : 37440 mg/kg/78W (Intermittent) [Tumorigenic - equivocal Tumorigenic agent by RTECS criteria Skin and Appendages - Tumors]

Inhalation:

Inhalation - Mouse LC50: 5300 mg/m3/2H [Details of toxic effects not reported other than lethal dose value]

Ingestion:

Oral - Rat LD50: 33500 ug/kg [Details of toxic effects not reported other than lethal dose value]
Oral - Mouse LD50: 2400 mg/kg [Tumorigenic - Active as anti-cancer agent]

Saccharin :

RTECS Number:

DE4200000

Skin:

Administration onto the skin - Mouse TDLo: 9600 mg/kg/10W (Intermittent) [Tumorigenic - Equivocal tumorigenic agent by RTECS criteria Skin and Appendages - Tumors]

Ingestion:

Oral - Mouse LD50: 17 gm/kg [Details of toxic effects not reported other than lethal dose value]

Cumene hydroperoxide :

RTECS Number:

MX2450000

Eye:

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

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 - Catalases Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - Other oxidoreductases Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - Other transferases]
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 inflammation]
Administration onto the skin - Mouse : 2012 mg/kg/2W (Intermittent) [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 - Rabbit : 500 mg

	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 - Dyspnea]
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]

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

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
RCRA Number:	Not determined.

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

Polyethylene :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Polyethylene glycol dimethacrylate :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Vinyl acetate emulsion :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

1,2-propanediol :

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

Acrylic acid :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey:	Listed: NJ Hazardous List; Substance Number: 0023
Massachusetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed

Saccharin :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
California PROP 65:	Listed: cancer

Pennsylvania:	Listed
Canada DSL:	Listed

Cumene hydroperoxide :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
New Jersey:	Listed: NJ Hazardous List; Substance Number: 0543
Massachusetts:	Listed: Massachusetts Oil and Hazardous List
Pennsylvania:	Listed
Canada DSL:	Listed
Canadian Regulations.	WHMIS Hazard Class(es): D2B All components of this product are on the Canadian Domestic Substances List.
WHMIS Pictograms:	

SECTION 16 : ADDITIONAL INFORMATION

MSDS Creation Date:	September 20, 2010
MSDS Revision Date:	December 30, 2012
MSDS Author:	Actio Corporation
Disclaimer:	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 liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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