

# SAFETY DATA SHEET

Revision Date 14-Apr-2014 Revision Number 1

### 1. Identification

Product Name Permount Mounting Media

Cat No. : SP15-100, SP15-500

Synonyms A permanent adhesive for cementing cover glass to microscope slide. Polymer dissolved i

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

CompanyEmergency Telephone NumberFisher ScientificCHEMTREC®, Inside the USA: 800-

One Reagent Lane 424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 001-

Tel: (201) 796-7100 703-527-3887

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Skin Corrosion/irritation

Serious Eye Damage/Eye Irritation

Reproductive Toxicity

Specific target organ toxicity (single exposure)

Category 2

Category 2

Category 2

Target Organs - Central nervous system (CNS).

Specific target organ toxicity - (repeated exposure)

Category 2

Aspiration Toxicity

Category 1

#### **Label Elements**

## Signal Word

Danger

#### **Hazard Statements**

Highly flammable liquid and vapor

May be fatal if swallowed and enters airways Causes skin irritation Causes serious eye irritation May cause drowsiness or dizziness

Suspected of damaging the unborn child

May cause damage to organs through prolonged or repeated exposure



### **Precautionary Statements**

### Prevention

Obtain special instructions before use

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

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Wear eve/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

# Response

IF exposed or concerned: Get medical attention/advice

### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

### Skin

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

#### ⊨yes

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 advice/attention.

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store locked up

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

### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking Harmful to aquatic life

### **Unknown Acute Toxicity**

45 % of the mixture consists of ingredients of unknown toxicity.

## 3. Composition / information on ingredients

Haz/Non-haz

Component	CAS-No	Weight %
Toluene	108-88-3	55
Polyterpene hydrocarbon resin	68240-09-5	45

### 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

**Ingestion** Aspiration hazard. Do not induce vomiting. Call a physician or Poison Control Center

immediately.

Most important symptoms/effects Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

Notes to Physician Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.. Do not use a solid water stream as

it may scatter and spread fire. Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire

Flash Point 4°C

Method - No information available

480°C

**Autoignition Temperature** 

**Explosion Limits** 

**Upper** 7.1% **Lower** 1.2%

Sensitivity to Mechanical No information available

**Impact** 

Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition. Runoff to sewer may create fire or explosion hazard. Do not allow run-off from fire fighting to enter drains or water courses. Vapors may travel to source of ignition and flash back. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.).

Hazardous Combustion Products Carbon oxides.

## **Protective Equipment and Precautions for Firefighters**

Vapors are heavier than air and may spread along floors. Vapors may accumulate in confined areas. Thermal decomposition can lead to release of irritating gases and vapors.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	3	0	N/A

### 6. Accidental release measures

**Personal Precautions**Remove all sources of ignition. Take precautionary measures against static discharges.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and

inhalation of vapors..

**Environmental Precautions** See Section 12 for additional ecological Information. Prevent product from entering drains.

**Methods for Containment and Clean** 

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Remove all sources of ignition. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Provide adequate ventilation. Prevent product from entering drains. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

# 7. Handling and storage

Handling Ensure adequate ventilation. Wear personal protective equipment. Keep away from open

flames, hot surfaces and sources of ignition. Use spark-proof tools and explosion-proof

equipment..

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep

away from heat and sources of ignition.

# 8. Exposure controls / personal protection

### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Toluene	TWA: 20 ppm	(Vacated) TWA: 100 ppm	IDLH: 500 ppm
		(Vacated) TWA: 375 mg/m <sup>3</sup>	TWA: 100 ppm
		Ceiling: 300 ppm	TWA: 375 mg/m <sup>3</sup>
		(Vacated) STEL: 150 ppm	STEL: 150 ppm
		(Vacated) STEL: 560 mg/m <sup>3</sup>	STEL: 560 mg/m <sup>3</sup>
		TWA: 200 ppm	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Toluene	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup>	TWA: 20 ppm
	Skin	g	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and

safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

# 9. Physical and chemical properties

Physical StateLiquidAppearanceYellowOdoraromatic

Odor Threshold
pH

No information available.
Not applicable

Melting Point/RangeNo data availableBoiling Point/Range111°C

Flash Point 4°C

Evaporation Rate No information available. Flammability (solid,gas) No information available

Flammability or explosive limits
Upper

 Upper
 7.1%

 Lower
 1.2%

Vapor PressureNo information available.Vapor Density3.1 (Air = 1.0)

Relative Density
Solubility
No information available.
Insoluble in water
No data available

Autoignition Temperature 480°C

**Decomposition temperature**No information available.

Viscosity
No information available.

# 10. Stability and reactivity

Reactive Hazard No

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon oxides

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous Reactions None under normal processing

## 11. Toxicological information

## **Acute Toxicity**

Oral LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Dermal LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Vapor LC50Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Toluene	> 5000 mg/kg (Rat)	8390 mg/kg (Rabbit)	26700 ppm (Rat) 1 h	

**Toxicologically Synergistic** 

**Products** 

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

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**Sensitization** No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Toluene	108-88-3	Not listed				
Polyterpene hydrocarbon resin	68240-09-5	Not listed				

Mutagenic Effects

No information available.

Reproductive Effects

No information available.

**Developmental Effects** Possible risk of harm to the unborn child.

**Teratogenicity** No information available.

**STOT - single exposure** Central nervous system (CNS).

STOT - repeated exposure None known.

**Aspiration hazard** No information available.

Symptoms / effects, both acute and delayed

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

#### **Ecotoxicity**

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Toluene	433 mg/L EC50 > 96 h	50-70 mg/L LC50 96 h	EC50 = 19.7 mg/L 30 min	11.5 mg/L EC50 = 48 h
	12.5 mg/L EC50 = 72 h	5-7 mg/L LC50 96 h		5.46 - 9.83 mg/L EC50 48 h
		15-19 mg/L LC50 96 h		
		28 mg/L LC50 96 h		
		12 mg/L LC50 96 h		!

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

Mobility

No information available

Component	log Pow
Toluene	2.65

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Toluene - 108-88-3	U220	-

# 14. Transport information

DOT

**UN-No** UN1294

Proper Shipping Name TOLUENE SOLUTION

Hazard Class 3 Packing Group II

**TDG** 

UN-No UN1294

Proper Shipping Name TOLUENE SOLUTION

Hazard Class 3
Packing Group ||

**IATA** 

UN-No UN1294

Proper Shipping Name TOLUENE SOLUTION

Hazard Class 3 Packing Group II

IMDG/IMO

**UN-No** UN1294

Proper Shipping Name TOLUENE SOLUTION

Hazard Class 3
Packing Group ||

# 15. Regulatory information

### **International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Toluene	Х	Х	-	203-625-9	-		Х	Х	Χ	X	X
Polyterpene hydrocarbon resin	Х	Х	-	-	-		Х	-	Х	Х	Х

### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b) Not applicable
SARA 313 Not applicable

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Toluene	108-88-3	55	1.0

SARA 311/312 Hazardous Categorization

Acute Health HazardYesChronic Health HazardYesFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

Clean Water Act Not applicable

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Toluene	X	1000 lb	X	X

Clean Air Act Not applicable

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors	
Toluene X			-	

**OSHA** Occupational Safety and Health Administration Not applicable

# CERCLA

Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Toluene	1000 lb	-	

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

Component	CAS-No	California Prop. 65	Prop 65 NSRL
Toluene	108-88-3	Developmental	-
		Female Reproductive	

### State Right-to-Know

Not applicable

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Toluene	X	X	X	X	X

### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

## **Other International Regulations**

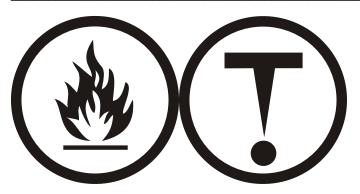
Mexico - Grade No information available

### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class B2 Flammable liquid

D2B Toxic materials



### **16. Other information**

Prepared By Regulatory Affairs

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**