

MATERIAL SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

	Revision Date 08/22/2013	Version 1.1
SECTION 1. Identification Product identifier		
Product number	100869	
Product name	Entellan® new for cover slipper for microscopy	
Relevant identified uses of the	e substance or mixture and uses advised against	
Identified uses	Reagent for analysis	
Details of the supplier of the s	afety data sheet	
Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 01821 United States of America SDS Phone Support: +1-978-715-1335 General Inquiries: +1-978-715-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)	
Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week	

SECTION 2. Hazards identification

GHS Classification

Flammable liquid, Category 3, H226 Acute toxicity, Category 4, Inhalation, H332 Acute toxicity, Category 4, Dermal, H312 Skin irritation, Category 2, H315 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



Signal Word Warning

Hazard StatementsH226 Flammable liquid and vapor.H312 + H332 Harmful in contact with skin or if inhaled.H315 Causes skin irritation.

Product number	100869	Version 1.1
Product name	Entellan® new for cover slipper for microscopy	

Precautionary Statements

P210 Keep away from heat.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

OSHA Hazards

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature

Mixture contains: Methacrylate/Acrylate resin(s).

Hazardous ingredients

Chemical Name (Concentration) CAS-No. xylene (mixture of isomers) (>= 50 % - < 70 %) 1330-20-7

SECTION 4. First aid measures

Description of first-aid measures

Inhalation

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing. Consult a physician.

Eye contact

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

Ingestion

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Call a physician immediately. Subsequently administer: activated charcoal (20 - 40 g in 10% slurry).

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

irritant effects, Lung edema, Pneumonia, Headache, drowziness, Dizziness, euphoria, agitation, spasms, narcosis

Dermatitis, Drying-out effect resulting in rough and chapped skin.

Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Fire-fighting measures Extinguishing media

Product number	100869	Version 1.1
Product name	Entellan® new for cover slipper for microscopy	

Suitable extinguishing media Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Combustible.

Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapors possible in the event of fire. Forms explosive mixtures with air at elevated temperatures.

Advice for firefighters

Special protective equipment for fire-fighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Cool closed containers exposed to fire with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

Environmental precautions

Do not empty into drains. Risk of explosion.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

SECTION 7. Handling and storage

Precautions for safe handling

Observe label precautions.

Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols.

Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.

Store at +15°C to +25°C (+59°F to +77°F).

Product number 100869 Version 1.1 Product name Entellan® new for cover slipper for microscopy

posure limit(s)			
Ingredients			
Basis	Value	Threshold limits	Remarks
xylene (mixtur	e of isomers) 1330-20-	-7	
ACGIH	Short Term Exposure Limit (STEL):	150 ppm	
	Time Weighted Average (TWA):	100 ppm	
NIOSH/GUIDE	Recommended exposure limit (REL):	100 ppm 435 mg/m³	
	Recommended exposure limit (REL):	100 ppm 435 mg/m³	
	Short Term Exposure Limit (STEL):	150 ppm 655 mg/m³	
	Short Term Exposure Limit (STEL):	150 ppm 655 mg/m³	
	Short Term Exposure Limit (STEL):	150 ppm 655 mg/m³	
	Recommended exposure limit (REL):	100 ppm 435 mg/m³	
OSHA_TRANS	PEL:	100 ppm 435 mg/m³	
Z1A	Short Term Exposure Limit (STEL):	150 ppm 655 mg/m³	
	Time Weighted Average (TWA):	100 ppm 435 mg/m³	

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/face protection Safety glasses

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Product number	100869	Version 1.1
Product name	Entellan® new for cover slipper for microscopy	

Other protective equipment: Flame retardant antistatic protective clothing

Respiratory protection

required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

	SECTION	9. Ph	ysical and	chemical	properties
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Physical state	liquid
Color	colorless
Odor	of xylene
Odor Threshold	No information available.
рН	No information available.
Melting point	No information available.
Boiling point/boiling range	279 - 289 °F (137 - 143 °C) at 1,013 hPa
Flash point	ca. 73 °F (23 °C)
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	1.1 %(V) (xylene)
Upper explosion limit	7.0 %(V) (xylene)
Vapor pressure	< 8 hPa at 68 °F (20 °C)
Relative vapor density	No information available.
Relative density	0.95 g/cm³ at 68 °F (20 °C)
Water solubility	at 68 °F (20 °C) insoluble
Partition coefficient: n- octanol/water	No information available.

Product number Product name	100869 Entellan® new for cover slipper for microscopy	Version 1.1
Autoignition temperature	No information available.	
Decomposition temperature	No information available.	
Viscosity, dynamic	250 - 600 mPa.s at 68 °F (20 °C)	
Explosive properties	No information available.	
Ignition temperature	> 482 °F (> 250 °C)	

SECTION 10. Stability and reactivity

Reactivity

Vapor/air-mixtures are explosive at intense warming.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents, conc. sulfuric acid, Nitric acid, uranium hexafluoride, sulfur

Conditions to avoid

Heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Incompatible materials

rubber, various plastics

Hazardous decomposition products

no information available

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure Eye contact, Skin contact Acute oral toxicity Symptoms: Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration of vomit. Acute inhalation toxicity absorption Symptoms: Inhalation may lead to the formation of oedemas in the respiratory tract. Acute toxicity estimate: 18.78 mg/l; 4 h Calculation method Acute dermal toxicity absorption

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Product number	100869	Version 1.1
Product name	Entellan® new for cover slipper for microscopy	
Acute toxicity estimate Calculation method	: 1,878 mg/kg	
<i>Skin irritation</i> Drying-out effect result Dermatitis Mixture causes skin irr	ting in rough and chapped skin. After long-term exposure to the chemical: itation.	
	<i>systemic toxicity - single exposure</i> ure is not classified as specific target organ toxicant, single exposure.	
	<i>ystemic toxicity - repeated exposure</i> ure is not classified as specific target organ toxicant, repeated exposure.	
<i>Aspiration hazard</i> Regarding the availab	le data the classification criteria are not fulfilled.	
Carcinogenicity		
IARC	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as probable, possible or confirmed	
	human carcinogen by IARC.	
OSHA	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as a carcinogen or potential	
	carcinogen by OSHA.	
NTP	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as a known or anticipated carcinogen	
	by NTP.	
ACGIH	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as a carcinogen or potential	
	carcinogen by ACGIH.	
Effect potentiated by: e	, Dizziness, euphoria, agitation, spasms, narcosis	
Ingredients		
<i>xylene (mixture of ison</i> <i>Acute oral toxicity</i> LD50 rat: 2,840 mg/k		
<i>Acute inhalation toxici</i> LC50 rat: 28 mg/l; 4	•	

Acute dermal toxicity LD50 rabbit: > 4,350 mg/kg (IUCLID) (Regulation (EC) No 1272/2008, Annex VI)

 Product number
 100869
 Version 1.1

 Product name
 Entellan® new for cover slipper for microscopy

 Skin irritation rabbit Result: Irritations (IUCLID)
 Version 1.1

 Eve irritation
 Intellan® new for cover slipper for microscopy

rabbit Result: slight irritation (IUCLID)

Germ cell mutagenicity Genotoxicity in vitro Mutagenicity (mammal cell test): chromosome aberration. Result: negative (National Toxicology Program)

Mutagenicity (mammal cell test): micronucleus. Result: negative (IUCLID)

Ames test Result: negative (IUCLID)

Carcinogenicity No indication of carcinogenic activity. (IUCLID)

SECTION 12. Ecological information

Ecotoxicity

No information available.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Mobility in soil No information available.

Ingredients

xylene (mixture of isomers) Toxicity to fish LC50 Oncorhynchus mykiss (rainbow trout): 8.2 mg/l; 96 h (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea): 75.5 mg/l; 24 h (ECOTOX Database)

Distribution among environmental compartments Adsorption/Soil log Koc: 2.29 - 2.49 (experimental) Moderately mobile in soils

Product number Product name 100869 Entellan® new for cover slipper for microscopy Version 1.1

Henry constant 772 Pa*m³/mol Method: (experimental) (Lit.) Distribution preferentially in air.

SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. Transport information

Land transport (DOT) UN number Proper shipping name Class Packing group	UN 1866 RESIN SOLUTION 3 III
Environmentally hazardous	
Air transport (IATA)	
UN number	UN 1866
Proper shipping name	RESIN SOLUTION
Class	3
Packing group	III
Environmentally hazardous	
Special precautions for user	no
Sea transport (IMDG)	
UN number	UN 1866
Proper shipping name	RESIN SOLUTION
Class	3
Packing group	III
Environmentally hazardous	
Special precautions for user	yes
EmS	F-E S-E

SECTION 15. Regulatory information

United States of America

OSHA Hazards Flammable Liquid Skin irritant

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

Product number Product name	100869 Entellan® new for cover slipper for microscopy	Version 1.1
SARA 311/312 Hazards Fire Hazard Acute Health Hazard		
SARA 313 The following components a 313: <i>Ingredients</i> xylene (mixture of isomers)	are subject to reporting levels established by SARA Title III, Section 1330-20-7	
,	1330-20-7	
SARA 302 SARA 302: No chemicals in III, Section 302.	this material are subject to the reporting requirements of SARA Title	
Clean Water Act		
The following Hazardous Su <i>Ingredients</i> xylene (mixture of isomers)	ubstances are listed under the U.S. CleanWater Act, Section 311, Table	116.4A:
The following Hazardous Cł <i>Ingredients</i> xylene (mixture of isomers)	nemicals are listed under the U.S. CleanWater Act, Section 311, Table ?	117.3:
DEA List I Not listed		
DEA List II Not listed		
US State Regulations		
Massachusetts Right To Kno	W	
Ingredients		
xylene (mixture of isomers)		
Pennsylvania Right To Know	1	
Ingredients		
xylene (mixture of isomers) polymer of methacrylic acid	and butyl mothacrylate	
New Jersey Right To Know		
Ingredients		
xylene (mixture of isomers)		
polymer of methacrylic acid	and butyl methacrylate	
California Prop 65 Compone	ints	
This product does not conta birth, or any other reproducti	in any chemicals known to the State of California to cause cancer, ve defects.	

Product number Product name	100869 Entellan® new for cover slipper for microscopy	Version 1.1
Notification status TSCA:	All components of the product are listed in the TSCA-inventory.	
DSL:	All components of this product are on the Canadian DSL.	

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapor.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date08/22/2013

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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