Printing date 11/08/2022

Reviewed on 11/08/2022

1 Identification

- · Product identifier
- Trade name: EUKITT Classic Mounting Medium
- · Article number: 15322-10
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Electron Microscopy Sciences 1560 Industry Road USA-Hatfield, PA 19440 Tel: 215-412-8400 Fax: 215-412-8450 email: info@emsdiasum.com www.emsdiasum.com
- · Information department: Product safety department
- *Emergency telephone number:* ChemTrec 1-800-424-9300 Contract <u>CCN7661</u> 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 Flame

Flammable Liquids 3 Substances and mixtures which, in contact with water, emit flammable gases 1 H226 Flammable liquid and vapor.
H260 In contact with water releases flammable gases, which may ignite spontaneously.

GHS08 Health hazard

Carcinogenicity 2 Specific Target Organ Toxicity - Repeated Exposure 2 H351 Suspected of causing cancer.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.



Acute Toxicity - Dermal 4H312 Harmful in contact with skin.Acute Toxicity - Inhalation 4H332 Harmful if inhaled.Skin Irrititation 2H315 Causes skin irritation.Specific Target Organ Toxicity - Single Exposure 3H335 May cause respiratory irritation.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



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Signal word Danger	(Contd. of page 1)
Hazard-determining components of labeling:	
xylene	
ethylbenzene	
Hazard statements	
Flammable liquid and vapor.	
In contact with water releases flammable gases, which may ignite spontaneously.	
Harmful in contact with skin or if inhaled.	
Causes skin irritation.	
Suspected of causing cancer.	
May cause respiratory irritation.	
May cause damage to the hearing organs through prolonged or repeated exposure.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Do not allow contact with water.	
Handle under inert gas. Protect from moisture.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
If on sam (or nair). Take off immediately all comaminated cloining. Kinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF INTALLD, Remove person to fresh un and keep comfortable for breaking. IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.	
In case of fire: Use CO2, sand, extinguishing powder to extinguish.	
Store in a dry place. Store in a closed container.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation.	<i>S</i> .
Classification system:	
NFPA ratings (scale 0 - 4)	
$3 \qquad Health = 2$	
2×2 Fire = 3	
Reactivity = 2	
The substance demonstrates unusual reactivity with water.	(Contd. on page 3)

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>50-≤100%

≤2.5%

· HMIS-ratings (scale 0 - 4)



• Other hazards

· Results of PBT and vPvB assessment

- *PBT:* Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

1330-20-7 xylene

100-41-4 ethylbenzene

4 First-aid measures

· Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- *After eye contact: Rinse opened eye for several minutes under running water.*
- · After swallowing: If symptoms persist consult doctor.

· Information for doctor:

- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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130 ppm

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Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdus	rt).
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
Do not flush with water or aqueous cleansing agents	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
PAC-1:	
1330-20-7 xylene	
100-41-4 ethylhenzene	

 100-41-4
 ethylbenzene
 33 ppm

 • PAC-2:
 1330-20-7
 xylene
 920* ppm

 100-41-4
 ethylbenzene
 1100* ppm

 • PAC-3:
 1330-20-7
 xylene
 2500* ppm

 100-41-4
 ethylbenzene
 1800* ppm

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

1330-20-7 xylene

PEL Long-term value: 435 mg/m³, 100 ppm

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REL	Short-term value: 655 mg/m ³ , 150 ppm (Contd. of page 4
	Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 20 ppm BEI, A4
100-4	11-4 ethylbenzene
PEL	Long-term value: 435 mg/m ³ , 100 ppm
	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 20 ppm OTO, BEI, A3
Ingre	dients with biological limit values:
1330	-20-7 xylene
	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
	11-4 ethylbenzene
	0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)
Addi	ional information: The lists that were valid during the creation were used as basis.
Perso Gene Keep Imme Wash Avoic Avoic Breau In car respin	sure controls mal protective equipment: ral protective and hygienic measures: away from foodstuffs, beverages and feed. diately remove all soiled and contaminated clothing. hands before breaks and at the end of work. l contact with the skin. I contact with the eyes and skin. thing equipment: se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us ratory protective device that is independent of circulating air. cotion of hands:
	Protective gloves
	love material has to be impermeable and resistant to the product/ the substance/ the preparation. To missing tests no recommendation to the glove material can be given for the product/ the preparation/ th

chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Colorless · Odor: Aromatic · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined. 136 °C (276.8 °F) Boiling point/Boiling range: 23 °C (73.4 °F) · Flash point: · Flammability (solid, gaseous): Flammable. Contact with water liberates extremely flammable gases. >250 °C (>482 °F) · Ignition temperature: • Decomposition temperature: Not determined. Product is not selfigniting. • Auto igniting: Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible. • Explosion limits: 0.9 Vol % Lower: Upper: 7 Vol % • Vapor pressure at 20 °C (68 °F): 8 hPa (6 mm Hg) 0.95 g/cm³ (7.92775 lbs/gal) • Density at 20 °C (68 °F): · Relative density Not determined. Not determined. · Vapor density Not determined. · Evaporation rate · Solubility in / Miscibility with Water: Not miscible or difficult to mix. · Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic at 20 °C (68 °F): 250-450 mPas Kinematic at 40 °C (104 °F): 200-400 mm²/s · Solvent content: **Organic solvents:** 61.0% (Contd. on page 7)

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		(Contd. of page 6)
VOC content:	61.00 % 579.5 g/l / 4.84 lb/gal	
Solids content:	ent: 0.0 %	
Other information	Other informationNo further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Contact with water releases flammable gases.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat) Dermal LD50 2,000 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
1330-20-7 xylene	3
100-41-4 ethylbenzene	2B
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety Health Administration)	

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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Behavior in environmental systems:
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Additional ecological information:
General notes:
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	UN1307	
UN proper shipping name		
DOT	Xylenes	
ADR	1307 XYLENES	
IMDG, IATA	XYLENES	
Transport hazard class(es)		
DOT		
RUMMEE LOUD		
Class	3 Flammable liquids	
Label	3	
ADR, IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
Packing group	III	

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	(Contd. of page 8
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-D
Stowage Category	A
• Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
· ADR	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
·IMDG	
· Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1307 XYLENES, 3, III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

All ingredients are listed.

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

All ingredients are listed.

· Proposition 65

• Chemicals known to cause cancer:

100-41-4 ethylbenzene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

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I D

A4

A3

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• Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

1330-20-7 xylene

100-41-4 ethylbenzene

· TLV (Threshold Limit Value)

1330-20-7 xylene

100-41-4 ethylbenzene

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling: xylene ethylbenzene · Hazard statements *Flammable liquid and vapor.* In contact with water releases flammable gases, which may ignite spontaneously. Harmful in contact with skin or if inhaled. Causes skin irritation. Suspected of causing cancer. May cause respiratory irritation. May cause damage to the hearing organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow contact with water. Handle under inert gas. Protect from moisture. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label).

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Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Use CO2, sand, extinguishing powder to extinguish. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Contact:

· Date of preparation / last revision 11/08/2022 / -· Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit **BEI:** Biological Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Substances and mixtures which, in contact with water, emit flammable gases 1: Substances and mixtures which in contact with water emit flammable gases – Category 1 Acute Toxicity - Dermal 4: Acute toxicity – Category 4 Skin Irrititation 2: Skin corrosion/irritation – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2

US -