SAFETY DATA SHEET

Version: 01
Date of Issue: 16.02.15
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ACCORDING TO OSHA HCS (29 CFR 1910.1200)

SECTION 1: IDENTIFICATION

Product identifier used on the label	CV MOUNT
Product number	14046430011
Recommended use of the chemical and restrictions on use	
Recommended use	For use when mounting coverglass on top of a prepared specimen.
Restrictions on use	All other uses. For professional users only.
Details of the supplier of the safety data sheet	
Supplier	Leica Biosystems Richmond, Inc
Address of Supplier	5205 Route 12 Richmond, IL 60071 United States
Telephone	800-225-3035
E-Mail	LBSNA-LBS-QA@leicabiosystems.com
Emergency telephone number	800-424-9300 (ChemTrec) +1 703-527-3887 International calls (call collect)

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200	
Physical hazards	Flammable Liquids Category 3
Health hazards	Skin Irritant Category 2 Eye Irritant Category 2A Specific Target Organ Toxicity Single Exposure Category 3 (Respiratory tract irritation) Specific Target Organ Toxicity Single Exposure Category 3 (Narcotic effects) Specific Target Organ Toxicity Repeated Exposure Category 2
Environmental hazards	Not classified
Hazard Symbol(s)	
Signal Word(s)	Warning
Hazard Statement(s)	H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

	H336 - May cause drowsiness or dizziness. H371 - May cause damage to organs through prolonged or repeated exposure.
Precautionary Statement(s)	P210 - Keep away from heat/sparks/open flames/hot surfaces – No smoking. P233 - Keep container tightly closed. P241 - Use explosion-proof electrical/ventilating/ lighting/equipment, use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe mist/ vapours/spray. P262 - Do not get in eyes, on skin or on clothing. Wash hands and exposed skin thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/eye protection/face protection. P303+361+353 - IF ON SKIN (or hair): Take of immediately all contaminated clothing. Rinse skin with water/shower. P304+340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER/doctor if you feel unwell. P332+313 - If skin irritation occurs: Get medical advice/attention. P337+313 - If eye irritation persists: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P370+378 - In case of fire: Use carbon dioxide, dry powder or foam to extinguish. P403+235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 – Dispose of contents/container in accordance with all local and national regulations.
Other hazards	Solvent vapours may form explosive mixtures with air.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances: Not applicable

Mixtures: Substances in preparations / mixtures

Chemical identity of the substance	CAS Number	% (w/w)	Hazard classification
Reaction mass of [ortho-xylene, meta-xylene, para-xylene & ethylbenzene]	1330-20-7	65 - 85	Flammable Liquids - Category 3 Aspiration Toxicity - Category 1 Skin Irritant - Category 2 Eye Irritant - Category 2A Specific Target Organ Toxicity Single Exposure - Category 3

			(Respiratory tract irritation) Specific Target Organ Toxicity Single Exposure - Category 3 (Narcotic effects) Specific Target Organ Toxicity Repeated Exposure - Category 2
Ethylbenzene	100-41-4	10 - 25	Flammable Liquids - Category 2 Aspiration Hazard - Category 1 Acute Toxicity - Category 4 Specific Target Organ Toxicity (Repeated Exposure) - Category 2 Aquatic Chronic Toxicity - Category 3

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting upper and lower eyelids. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly after handling. Get medical attention if irritation persists.
Inhalation	Call medical doctor or poison control center immediately. Move exposed person to fresh air. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing, such as a collar, tie, belt, or waistband. Get medical attention immediately.
Ingestion	Wash out mouth with water. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Most important symptoms and effects, both acute and delayed	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Inhalation of solvent vapours may give rise to nausea, headaches and dizziness. High concentrations: May cause unconsciousness. Ingestion: Adverse effects similar to inhalation will occur. Skin Contact: Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.
Indication of any immediate medical attention and special treatment needed	Remove from exposure. Treat symptomatically.
Notes to a physician:	Ethylbenzene: Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias (irregular beating) in persons exposed to this material.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media	As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical.
Unsuitable extinguishing Media	Do not use water jet. Direct water jet may spread the fire.
Special hazards arising from the substance or mixture	Flammable liquid and vapour. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Prevent liquid entering sewers, basements and workpits. May decompose in a fire giving off toxic fumes. Oxides of carbon and Hydrocarbons.
Special protective equipment and precautions for fire fighters	Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Avoid all contact. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Flammable liquid and vapour. Solvent vapours may form explosive mixtures with air. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. The vapour is heavier than air; beware of pits and confined spaces. Do not breathe vapour. Avoid all contact. Use personal protective equipment as required. See Section: 8. Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.
Methods and material for containment and cleaning up	Ensure suitable personal protection during removal of spillages. Absorb spillage in inert material and shovel up. Do not adsorb onto sawdust or other combustible materials. Use non-sparking equipment when picking up flammable spill. Transfer to a lidded container for disposal or recovery. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste. Do not allow to enter drains, sewers or watercourses.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe vapour. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned. Keep away from flames and hot surfaces. Use only non-sparking tools. Take precautionary measures against static discharge. May attack some plastics, rubber and coatings.
Conditions for safe storage, including any incompatibilities	Ground/bond container and receiving equipment. Keep container tightly closed, in a cool, well ventilated place. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Opened containers should be carefully resealed and stored in an upright position.
Storage temperature	Stable at ambient temperatures.
Storage life	Keep container tightly closed, in a cool, well ventilated place.
Incompatible materials	Keep away from: Strong oxidizing agents, acids, and alkalis.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Chemical Name	CAS Number	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Xylene	1330-20-7	100	435	150 (1)	655 (1)	NIOSH
		100	435	-	-	OSHA
		100	-	150	-	ACGIH, A4
Ethylbenzene	100-41-4	100	435	125 (1)	545 (1)	NIOSH
		100	435	-	-	OSHA
		20	-	-	-	ACGIH, A3

Note: OSHA PELs 1910.1000 TABLE Z-1/2/3 / NIOSH RELs / ACGIH TLVs.
(1): 15 minute average value
A4: Not classifiable as a Human Carcinogen.
A3: Confirmed animal carcinogen with unknown relevance to humans

Biological exposure indicies

SUBSTANCE	CAS No.	Determinant	Biological Exposure Indices	Sampling Time	Note
Xylene	1330-20-7	Methylhippuric acids in urine	1.5 g/g creatinine	End of shift	-
Ethylbenzene	100-41-4	Sum of mandelic acid and phenylglyoxylic acid in urine	0.15 g/g creatinine	End of shift	Ns

Source: 2015 ACGIH Biological Exposure Indicies (BEIs)
Notes: "Ns" – Nonspecific: The determinant is nonspecific, since it is also observed after exposure to other chemicals.

Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Handle in a fume cupboard. Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines. Guarantee that the eye flushing systems and safety showers are located close to the working place.

Individual protection measures, such as personal protective equipment (PPE)

Keep good industrial hygiene. Do not breathe vapour. Wear appropriate personal protective equipment, avoid direct contact. Wash hands before breaks and after work. Keep work clothes separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place.

Eye/face protection

Wear safety glasses or chemical goggles.

Skin protection

Impervious clothing as needed to avoid skin contact. Impervious gloves recommended (butyl rubber).

Respiratory protection

None needed with adequate ventilation. If the occupational exposure limit is exceeded, use an approved organic vapor respirator. Selection of respiratory protection depends on the contaminant type, form, and concentration. Select in accordance with OSHA 1910.134 or other applicable regulations and

good industrial hygiene practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Colorless viscous liquid.
Odor	Aromatic; Slight sweet smell
Odor Threshold	20 – 40 ppm
pH	Not available.
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	278.6 – 289.4°F (137 - 143 °C)
Flash Point	73.4°F (>23 °C) (ASTM D3828 [Closed cup])
Evaporation Rate	Not available.
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Flammable Limits: 1% - 8%
Vapour pressure	≈ 1 kPa @ 20°C
Vapour density	Not available.
Relative density	0.943 g/cm³ @ 21°C
Solubility(ies)	Water: 175 mg/l (Insoluble in water)
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	932°F (>500 °C)
Decomposition Temperature	Not available.
Viscosity	412 mm/s @ 40°C

Other information

Explosive properties	Not explosive (Solvent vapours may form explosive mixtures with air)
Oxidising properties	Not oxidising.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Flammable liquid and vapour. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. May react with: Halogens and Strong oxidising agents.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	Keep away from: halogens, strong oxidizing agents, acids and alkalis. May attack some plastics, rubber and coatings.
Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Oxides of carbon and hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity

Ingestion	Based on available data, the classification criteria are not met.

	Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day Reaction mass of [ortho-xylene, meta-xylene, para-xylene & ethylbenzene]: LD50 (male mouse): 5627 mg/kg bw/day; LD50 (female mouse): 5251 mg/kg bw/day (1986), equivalent or similar to: EU Method B.1.
Inhalation	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 20 mg/l Reaction mass of [ortho-xylene, meta-xylene, para-xylene & Ethylbenzene]: 4 hr LD50 (rat): 29.1 mg/l (6700 ppm) (1975), equivalent or similar to: EU Method B.2. Test data taken fron Mixed xylenes (m- 65.01%, o- 7.63%, p- 7.84%). Reaction mass of [ortho-xylene, meta-xylene, para-xylene & ethylbenzene]: 4 hr LD50 (rat): 27. 6 mg/l (6350 ppm) (1970), equivalent or similar to: EU Method B.2. Test data taken from C-8 aromatics (ortho, meta and para xylene, ethylbenzene composition not defined).
Skin Contact	Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day Reaction mass of [ortho-xylene, meta-xylene, para-xylene & ethylbenzene]: LD50 (rabbit): > 4200 mg/kg bw/day (1970). Test data taken from C-8 aromatics (ortho, meta and para xylene, ethylbenzene composition not defined).
Skin corrosion/irritation	Skin Irritant - Category 2: Causes skin irritation. Reaction mass of [ortho-xylene, meta-xylene, para-xylene & ethylbenzene]: Moderately irritating to rabbit skin (1970). Test data taken from C-8 aromatics (ortho, meta and para xylene; ethylbenzene; composition not defined).
Serious eye damage/irritation	Eye Irritant - Category 2A: Causes serious eye irritation. Reaction mass of [ortho-xylene, meta-xylene, para-xylene & ethylbenzene]: Moderately irritating to rabbit eyes (1970). Test data taken from C-8 aromatics (ortho, meta and para xylene; ethylbenzene; composition not defined).
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Specific Target Organ Toxicity (Single Exposure) – Category 3: May cause respiratory irritation. O, m and p- xylene: Human observations, 400-600 ppm for 15-30 minutes - respiratory system irritation (1986). Specific Target Organ Toxicity (Single Exposure) – Category 3: May cause drowsiness and dizziness. Xylene: Human volunteers, 100 ppm for 4 hours - Deterioration of performance in tests of simple reaction time and choice reaction time (1990).
STOT - repeated exposure	Specific Target Organ Toxicity (Repeated Exposure) - Category 2: May cause damage to organs through prolonged or repeated exposure. Reaction mass of [ortho-xylene, meta-xylene, para-xylene & ethylbenzene]: Human observations, inhalation, 21 ppm (TWA) for 7 years - increase in the reporting of symptoms including increased anxiety, forgetfulness and inability

	to concentrate (1993). Test data taken from mixed xylenes (approximately 50% m-xylene, 30% p-xylene, and 15% o-xylene). Reaction mass of [ortho-xylene, meta-xylene, para-xylene & ethylbenzene]: (rat) Inhalation (8 hrs/day, 7 days/week for 6 week, then 5 days/ week for 6 months) - increased relative liver weight (1990). Test data taken from xylenes (10% o-xylene, 50% m-xylene, 20% p-xylene, 20% ethylbenzene). Reaction mass of [ortho-xylene, meta-xylene, para-xylene & ethylbenzene]: (rat) Oral – Increased kidney weight (1988). Equivalent or similar to OECD Guideline 408. Test data taken from mixed xylenes (17.6% o-xylene, 62.2% m-xylene and p-xylene (co-eluted), 20% ethylbenzene. Ethylbenzene: Male rat, Inhalation (6 days/week for 13 weeks) - An irreversible, functional deficit in hearing: NOAEC 200 ppm (2007).
Aspiration hazard	Based on available data, the classification criteria are not met.
Information on likely routes of exposure	
Inhalation	Accidental - Unlikely
Ingestion	Accidental - Unlikely
Skin Contact	Yes – Possible. On prolonged contact xylene isomers and ethylbenzene can be absorbed through the skin.
Eye Contact	Accidental - Unlikely
Potential immediate effects	Inhalation of solvent vapours may give rise to nausea, headaches and dizziness. Vapour may irritate respiratory system or lungs. High concentrations: May cause unconsciousness. Ingestion: Adverse effects similar to inhalation will occur. May cause stomach pain or vomiting. May cause pneumonia if material reaches the lungs. Skin Contact: Irritating and degreasing. Eye Contact: Possible redness and irritation of affected areas.
Delayed effects / repeated exposure	Prolonged or frequent inhalation of vapours in high concentrations may cause permanent damage to the nervous system, including the brain. May cause damage to the kidneys, liver and hearing organs.
Other information	
NTP Report on Carcinogens	Not applicable
IARC Monographs	Xylene: Group 3 - Not classifiable as to its carcinogenicity to humans. Ethylbenzene: Group 2B – Possibly carcinogenic to humans.
Regulated by OSHA as a carcinogen	None of the components are listed.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Non-toxic to aquatic life. Estimated LC50 (96 hour) Fish >100 mg/l Xylene: NOEC (56 days) >1.3 mg/l (fish) (1977) Ethylbenzene: NOEC (7 days) 0.96 mg/l (Ceriodaphnia dubia) (1998)

Persistence and degradability	Xylene isomers and ethylbenzene are biodegradable and non-persistent.
Bioaccumulative potential	The product has low potential for bioaccumulation.
Mobility in soil	No data for the mixture as a whole. The product is predicted to have low mobility in soil. Insoluble in water.
Other adverse effects	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Dispose of this material and its container as hazardous waste. Containers of this material may be hazardous when empty since they retain product residue. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation. Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

	DOT	**IMDG**	**IATA/ICAO**
UN number	1866	1866	1866
UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	Not classified as a Marine Pollutant.	Not classified as a Marine Pollutant.	Not classified as a Marine Pollutant.
Special precautions for user	See Section: 2		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	Not applicable.	Not applicable.
Additional Information	None.		

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

TSCA Inventory	TSCA 8(b) Inventory status: All components are listed.
TSCA Chemical Data Reporting (CDR) Rule	Xylene: Subject to 25,000 lb reporting threshold

US State Regulations

Proposition 65 (California)	Ethylbenzene.

SECTION 16: OTHER INFORMATION

Version	1.0
Revision Date	16th Dec 2015
Date of First Issue	16th Dec 2015

NFPA Rating	Health: 2	Fire: 3	Instability: 0
HMIS Rating	Health: 2	Fire: 3	Physical Hazard: 0

References: Existing Safety Data Sheet (SDS). Existing ECHA registration(s) for Xylene (CAS No. 1330-20-7) and Ethylbenzene (CAS No. 100-41-4).

Additional Online Sources

TOXNET Hazardous Substances Data Bank (HSDB): Xylenes: http://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~Wivmpt:1 National Library of Medicine. (Accessed 16.12.15).

Inventory Multi-Tiered Assessment and Prioritisation (IMAP): Human Health Tier II Assessment for Xylenes: http://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=126 Australian Government Department of Health, National Industrial Chemicals Notification and Assessment Scheme (NICNAS) (Accessed 16.15.12).

GHS Classification of the substance or mixture	Classification Procedure
Flammable Liquids Category 3	Estimated Flash Point Test Result
Skin Irritant Category 2	Threshold Calculation
Eye Irritant Category 2A	Threshold Calculation
Specific Target Organ Toxicity (Single Exposure) Category 3 (Respiratory tract irritation and Narcotic effects)	Threshold Calculation
Specific Target Organ Toxicity Repeated Exposure Category 2	Threshold Calculation

This Safety Data Sheet was prepared in accordance with OSHA HCS (29 CFR 1910.1200).

Notice to reader:

This Safety Data Sheet (SDS) has been prepared in accordance with the Classification, Labelling, and Packaging (CLP) regulation in the EU and the Globally Harmonized System (GHS) (29CFR 1910.1200) in the US. It complies with the requirements of the Canadian Controlled Products Regulations. To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.