

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date: 01.09.2015


Version No: 1

Revision: 01.09.2015

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** EUKITT®classic
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:**  
Laboratory chemicals  
Acrylic resin
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ORSatec GmbH  
Max-Fischer-Str. 11  
86399 Bobingen  
Germany  
  
Tel.: +49 761 81 077  
Fax: +49 761 89 25 35  
E-mail: info@orsatec.com
- **1.4 Emergency telephone number:**  
Vergiftungs-Informationen-Zentrale Freiburg  
Tel.: +49 761 19240

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Flam. Liq. 3 H226 Flammable liquid and vapour.  
Acute Tox. 4 H312 Harmful in contact with skin.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H335 May cause respiratory irritation.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  
  
GHS02 GHS07 GHS08
- **Signal word** Warning
- **Hazard-determining components of labelling:**  
xylene
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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*H335 May cause respiratory irritation.*

*H373 May cause damage to organs through prolonged or repeated exposure.*

**· Precautionary statements**

*P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*

*P241 Use explosion-proof electrical/ventilating/lighting/equipment.*

*P260 Do not breathe dust/fume/gas/mist/vapours/spray.*

*P280 Wear protective gloves/protective clothing/eye protection/face protection.*

*P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*P405 Store locked up.*

*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· Additional information:**

*Contains methyl methacrylate, n-butyl methacrylate. May produce an allergic reaction.*

**· 2.3 Other hazards**

**· Results of PBT and vPvB assessment**

**· PBT:** Not determined

**· vPvB:** Not determined

### SECTION 3: Composition/information on ingredients

**· 3.2 Chemical characterisation: Mixtures**

**· Dangerous components:**

CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9	xylene ----- Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	~ 60%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4	ethylbenzene ----- Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	~ 1%

**· Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

**· 4.1 Description of first aid measures**

**· General information:**

*Take affected persons out of danger area and lay down.*

*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.*

*If skin irritation continues, consult a doctor.*

**· After eye contact:**

*Rinse opened eye for several minutes under running water.*

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Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment.

**· After swallowing:**

Do NOT induce vomiting.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

**· 4.2 Most important symptoms and effects, both acute and delayed**

Nausea

Gastric or intestinal disorders

Unconsciousness

**· 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****· 5.1 Extinguishing media****· Suitable extinguishing agents:**

CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

Foam

Use fire extinguishing methods suitable to surrounding conditions.

**· For safety reasons unsuitable extinguishing agents: Water with full jet****· 5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide

Carbon dioxide

**· 5.3 Advice for firefighters****· Protective equipment: Wear self-contained respiratory protective device.****· Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Wear protective clothing.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

**· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.****· 6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

Dispose of the material collected according to regulations.

**· 6.4 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.

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**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**1330-20-7 xylene**

<i>WEL (Great Britain)</i>	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
<i>IOELV (EU)</i>	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

**100-41-4 ethylbenzene**

<i>WEL (Great Britain)</i>	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
<i>IOELV (EU)</i>	Short-term value: 884 mg/m <sup>3</sup> , 200 ppm Long-term value: 442 mg/m <sup>3</sup> , 100 ppm Skin

· **Ingredients with biological limit values:**

**1330-20-7 xylene**

<i>BMGV (Great Britain)</i>	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

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Filter A

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

Fluorocarbon rubber (Viton)

Recommended thickness of the material:  $\geq 0.7$  mm

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.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Aromatic
· <b>Odour threshold:</b>	Not determined.

· <b>pH-value:</b>	Not determined.
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· **Change in condition**

· <b>Melting point/Melting range:</b>	Not determined.
· <b>Boiling point/Boiling range:</b>	ca. 136 °C

· <b>Flash point:</b>	23 °C
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· <b>Flammability (solid, gaseous):</b>	Not applicable.
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· <b>Ignition temperature:</b>	>250 °C
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· <b>Decomposition temperature:</b>	Not determined.
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· <b>Self-igniting:</b>	Product is not selfigniting.
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· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	0.9 Vol % (Xylol)
<b>Upper:</b>	7.0 Vol % (Xylol)
· <b>Oxidising properties</b>	No
· <b>Vapour pressure at 20 °C:</b>	ca. 8 hPa (Xylol)
· <b>Density at 20 °C:</b>	0.95 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	~250-450 mPas
<b>Kinematic at 20 °C:</b>	~200-400 mm <sup>2</sup> /s
· <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful in contact with skin.

· **LD/LC50 values relevant for classification:**

**1330-20-7 xylene**

Oral	LD50	3523 mg/kg (Rat) (EU Method B.1) male rats
Dermal	LD50	> 4200 mg/kg (Rabbit)
Inhalative	LC50 (4h)	29.091 mg/L (Rat) (EU Method B.2) vapour

**100-41-4 ethylbenzene**

Oral	LD50	3500 mg/kg (Rat) (standard acute method)
Dermal	LD50	15400 mg/kg (Rabbit) (standard acute method, occlusive)

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Inhalative	LC50 (4h)	17.8 mg/L (Rat) vapour
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- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**1330-20-7 xylene**

EC10 (static)	1.9 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata) 73h Read-across
EC50 (24h) (static)	96 mg/L (Bacteria) (Nitrosomonas sp.) Read-across based on grouping of substances
IC50 (static)	1 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) 24h Read-across
LC50 (96h) (static)	2.6 mg/L (Fish) (OECD Guideline 203, Oncorhynchus mykiss) Read-across
NOEC	0.96 mg/L (Daphnia) (US EPA 600/4-91-003, Ceriodaphnia dubia) 7d Read-across > 1.3 mg/L (Fish) (Oncorhynchus mykiss) 56d
NOEC (72h) (static)	0.44 mg/L (Algae) (OECD Guideline 201, Pseudokirchnerella subcapitata) 73h Read-across

**100-41-4 ethylbenzene**

EC50 (24h)	96 mg/L (Bacteria) (inhibition, Nitrosomas sp.)
EC50 (48h) (static)	1.8 - 2.4 mg/L (Daphnia) (Daphnia magna, EPA Method F)
EC50 (72h) (static)	4.9 mg/L (Algae) (Pseudokirchneriella subcapitata, US EPA, 1985) measured concentration

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LC50 (96h)	4.2 mg/L (Fish) (OECD Guideline 203, <i>Oncorhynchus mykiss</i> ) semi-static
NOEC	0.96 mg/L ( <i>Daphnia</i> ) (7d, <i>Ceriodaphnia dubia</i> , EPA600/4-91-003) semi-static

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not determined
- **vPvB:** Not determined
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packaging**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.  
Non contaminated packagings may be recycled.

**SECTION 14: Transport information**

· <b>14.1 UN-Number</b>	
· <b>ADR,RID,ADN, IMDG, IATA</b>	UN1307
· <b>14.2 UN proper shipping name</b>	
· <b>ADR/RID/ADN</b>	1307 XYLENES solution
· <b>IMDG, IATA</b>	XYLENES solution
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR,RID,ADN, IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3

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· <b>14.4 Packing group</b> · <b>ADR,RID,ADN, IMDG, IATA</b>	<b>III</b>
· <b>14.5 Environmental hazards:</b>	<i>Not applicable.</i>
· <b>14.6 Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b>	<i>Warning: Flammable liquids.</i> <b>30</b> <i>F-E,S-D</i>
· <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b>	
· <b>ADR/RID/ADN</b> · <b>Tunnel restriction code</b>	<i>D/E</i>
· <b>UN "Model Regulation":</b>	<i>UN 1307 XYLENES SOLUTION, 3, III, (D/E)</i>

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*
- **Seveso category P5c** *FLAMMABLE LIQUIDS*
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** *5.000 t*
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** *50.000 t*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### SECTION 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.*

- **Relevant phrases**
- H225 Highly flammable liquid and vapour.*
- H226 Flammable liquid and vapour.*
- H304 May be fatal if swallowed and enters airways.*
- H312 Harmful in contact with skin.*
- H315 Causes skin irritation.*
- H319 Causes serious eye irritation.*
- H332 Harmful if inhaled.*
- H335 May cause respiratory irritation.*
- H373 May cause damage to organs through prolonged or repeated exposure.*
- H412 Harmful to aquatic life with long lasting effects.*
- **Department issuing SDS:**
- Chemservice S.A.*
- 5, an de Laengten*
- L-6776 Grevenmacher, Luxembourg*
- Tel.: +352 270776-1*
- Fax: +352 270776-75*
- Email: sds@chemservice-group.com*

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**Abbreviations and acronyms:***REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals**MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships**IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk**UN: United Nations (also UNO: United Nations Organization)**NOEC: No Observed Effect Concentration**OECD: Organisation for Economic Co-operation and Development**ASTM: American Society for Testing and Materials**WAF: Water Accommodated Fraction**ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids, Hazard Category 2**Flam. Liq. 3: Flammable liquids, Hazard Category 3**Acute Tox. 4: Acute toxicity, Hazard Category 4**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3**STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2**Asp. Tox. 1: Aspiration hazard, Hazard Category 1**Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*