Safety Data Sheet

UN-GHS (Rev.4) (2011) ***O. Kindler GmbH***

EUKITT®; Harz K (PM 709) Status: 05.07.2012

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Eukitt® Mounting medium

Solution of an acrylic polymer

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use(s): mounting medium

Non-recommended use(s): None known.

1.3. Details of the supplier of the safety data sheet

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Information provided by :
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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

This mixture is classified as hazardous according to GHS

GHS-Classification As per UN-GHS

II Flammable liquids	Hazard category 3	H226
Acute toxicity (dermal)	Hazard category 4	H312
Acute toxicity (inhalation)	Hazard category 4	H332
Caustic burning / irritation of skin	Hazard category 2	H315
Serious eye damage/eye irritation	Hazard category 2 A	H319
Specific Target Organ Toxicity - Single exposure (inhalation)	Hazard category 3	H335
Specific Target Organ Toxicity - Repeated exposure	Hazard category 2	H373

2.2. Label elements As per UN-GHS

GHS-Labelling

II Signal word	**Danger**
II GHS pictogram (e)	
II hazard statement (e)	Flammable liquid and vapour. (H226) Harmful in contact with skin. (H312) Harmful if inhaled. (H332) Causes skin irritation. (H315) Causes serious eye irritation. (H319) May cause respiratory irritation. (H335) May cause damage to organs through prolonged or repeated exposure. (H373)
II Precautionary Statement (Prevention)	Keep away from heat/sparks/open flames/hot surfaces. No smoking. (P210) Avoid breathing dust/fume/gas/mist/vapours/spray. (P261) Wear protective gloves/protective clothing/eye protection/face protection. (P280)
II Precautionary Statement (Response)	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. (P303 + P361 + P353)
II Precautionary Statement (Disposal)	Dispose of contents/container in accordance with local regulation. (P501)
Hazardous component(s) for labelling	contains xylene

2.3. Other hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

3.2. Mixtures

Hazardous Ingredients As per UN-GHS

'Component	CAS-No.	Content	Hazard class / Hazard category / Hazard statement
xylene	1330-20-7	40.0 -70.0 %	Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Acute Tox. 4 (dermal); H312 Acute Tox. 4 (inhalation); H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H320 STOT SE 3 (inhalation); H335 STOT RE 2 ; H373

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Remove soiled, soaked clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.
Inhalation	Move subject to fresh air and keep him calm. See a physician.
Skin contact	Wash off immediately with soap and water. If skin irritation occurs consult a physician.
Eye contact	Flush eyes thoroughly with a large amount of water and consult a physician.
Ingestion	Do not induce vomiting. Contact a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

II Excessive or prolonged exposure can cause the following:, nausea, vomiting, unconsciousness

4.3. Indication of any immediate medical attention and special treatment needed

II Aspiration may cause pulmonary oedema and pneumonitis.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	foam, dry chemical, carbon dioxide
Extinguishing media which must not be used for safety reasons	water

5.2. Special hazards arising from the substance or mixture

II May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Take care for adequate ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

6.2. Environmental precautions

Prevent product from getting into drains/surface water/groundwater.

6.3. Methods and material for containment and cleaning up

Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment! Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

6.4. Reference to other sections

For personal protection see section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice	Provide good room ventilation even at ground level (vapours are heavier than air). Do not leave the vessels/containers open.
Advice on protection against fire and explosion	Keep away from sources of ignition --- No smoking. Take precautionary measures against static discharges. In the event of fire, cool the endangered containers with water. Ignitable mixtures can form in the empty container. Vapours can form an explosive mixture with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Protect from sun. Keep container tightly closed and store in a cool, well ventilated area.

7.3. Specific end use(s)

no

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

see section 8.2.

8.2. Exposure controls

Protective measures	Do not inhale vapours. Avoid contact with eyes and skin.
Hygiene measures	Remove soiled or soaked clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.
Respiratory protection	Breathing apparatus in case of high concentrations
Hand protection	Viton® gloves (0.7 mm), Break through time ca. 480 min (EN 374)
General information	Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.
Eye protection	tightly fitting goggles
Skin and body protection	On handling of larger quantities: face mask, chemical-resistant boots and apron

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	aromatic
Freezing Temperature	<0 °C
Initial Boiling Point	ca.137 °C (1,013 hPa)
Flash point	23 °C (DIN 53213)
Ignition temperature	> 250 °C (DIN 51794)
Lower explosion limit	1 %(V) (xylene)
Upper explosion limit	8 %(V) (xylene)
Vapour pressure	ca. 8 hPa (20 °C) (xylene)
Density	0.95 g/cm3 (20 °C)
Relative vapour density (related to air)	3.7 (20 °C) (xylene)

Solubility in water	200 mg/l (20 °C) (xylene)
Solubility (qualitative)	soluble in esters and ketones, Soluble in aromatic hydrocarbons
pH	not applicable
Viscosity (dynamic)	250 - 450 mPa.s (20 °C), (Brookfield)

9.2. Other information

none

10. STABILITY AND REACTIVITY

10.1. Reactivity

see section 10.2.

10.2. Chemical Stability

No decomposition when used as directed.

10.3. Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4. Conditions to avoid

Avoid high temperatures and sources of ignition.

10.5. Incompatible materials

oxidizing agents

10.6. Hazardous decomposition products

None when used as directed.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

toxicokinetics, metabolism and distribution	no specific test data available	
Acute Oral Toxicity	LD50 rat, Related to substance: xylene, Low toxicity if swallowed	> 2,000 mg/kg
Acute Inhalational Toxicity	LC50 rat, Related to substance: xylene	22 mg/l
Acute Dermal Toxicity	LD50 rabbit, Related to substance: xylene	> 2,000 mg/kg
Caustic burning / irritation of skin	rabbit, Related to substance: xylene	irritating
Serious eye damage/eye irritation	rabbit, Related to substance: xylene	irritating

Respiratory/skin sensitization	man, Related to substance: xylene	non-sensitising
Aspiration hazard	not applicable	
Mutagenicity assessment	not mutagenic in in vivo and in vitro tests Related to substance: xylene	
Carcinogenicity	No indication of carcinogenic effects. Related to substance: xylene	
Reprotoxicity / teratogenicity	non-reprotoxic Related to substance: xylene	
Human health hazard assessment	CMR: no	
Specific Target Organ Toxicity - exposure	(narcosis)Specific target organ toxicity – single exposure Single Category 3 (UN-GHS)	
Toxicity on Repeated Administration	rat, , 90 d, OECD 408 Related to substance: xylene	LOAEL 150 mg/kg
General information	High solvent concentrations will cause irritations of the eyes and respiratory system and may cause headache, dizziness and disorder of the central nervous system. Avoid contact with the skin and eyes and inhalation of the product vapours.	

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatoxicity, fish	LC50 Morone saxatilis, 96 h Related to substance: xylene	2 mg/l
Aquatoxicity, invertebrates	EC50 Daphnia magna, 48 h Related to substance: xylene	1 -10 mg/l
Aquatoxicity, algae / aquatic plants	EC50 Chlamydomonas angulosa, 3 h Related to substance: xylene	46 mg/l

12.2. Persistence and degradability

Persistence and degradability	no evidence for hazardous properties (structure-activity-relationships) (analogy)
Biodegradability	biodegradable Related to substance: xylene

12.3. Bioaccumulative potential

Bioaccumulation	no evidence for hazardous properties (structure-activity-relationships) (analogy)

12.4. Mobility in soil

Mobility no specific test data available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment	PBT: no vPvB: no

12.6. Other adverse effects

General Information	Hazard for the drinking water even in case of only small quantities draining into the subsoil. Prevent substance from entering soil, natural bodies of water and sewer systems.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product	Waste is hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.
Uncleaned packaging	Contaminated packaging should be emptied optimally and after appropriate professional cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

14. TRANSPORT INFORMATION

14.1. UN number

see section 14.2.

14.2. UN proper shipping name

Land transport ADR/GGVSEB

Land transport RID/GGVSEB

Inland waterway transport ADN/GGVSEB (Germany)

Shipment by sea IMDG/GGVSee

UN number		1307
Class		3
EmS		F-E, S-D
Marine pollutant	No	
Packaging group	III	
Proper Shipping Name		Xylenes, Solution

Air transport ICAO/IATA

UN number	1307

Class	3
Packaging group	III
Proper Shipping Name	Xylenes, Solution

14.3. Transport hazard class(es)

see section 14.2.

14.4. Packing group

see section 14.2.

14.5. Environmental hazards

if not mentioned in Point 14.2 then it does not apply

14.6. Special precautions for user

see section 14.2.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

for transportapproval see regulatory information

15. REGULATORY INFORMATION

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

Classification as per Directive 67/548/EC or Directive 1999/45/EC

Hazardous component(s) for labelling contains xylene

National legislation

	Health	Flammability	Physical Hazard
HMIS-Ratings	2*	3	0
NFPA-Ratings	2	3	0

HMIS Hazard Ratings	NFPA Hazard Ratings
4 = severe	4 = extreme
3 = serious	3 = high
2 = moderate	2 = moderate
1 = slight	1 = slight
0 = minimal	0 = insignificant
N = no rating for powders	N = no rating for powders
* = chronic health hazard	

Status of Registration

REACH (EU) preregistered, registered or exempted

TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted
IECSC (CN)	listed or exempted

16. OTHER INFORMATION

Other information	none	
Relevant H phrases from chapter 3	xylene	
	H226	Flammable liquid and vapour.
	H312	Harmful in contact with skin.
	H332	Harmful if inhaled.
	H315	Causes skin irritation.
	H320	Causes eye irritation.
	H304	May be fatal if swallowed and enters airways.
	H335	May cause respiratory irritation.
	H373	May cause damage to organs through prolonged or repeated exposure.
References	relevant manuals and publications own examinations own toxicological and ecotoxicological studies toxicological and ecotoxicological studies of other manufacturers SIAR OECD-SIDS RTK public files	

Places marked by **||** have been amended from the last version.

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