

Safety data sheet

1.

	<u>e name:</u> Faserspachtel
	cation of the substance/ the preparation:
	filler/ Surfacer
BEIL	
Kuns	tstoffproduktions- und Handelsgesellschaft mbH
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	224 Peine
	on: +49 (0)5171/70 99-0
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E-Ma	il: <u>service@beil-peine.de</u>
	nation in case of emergency:
	entrale Göttingen
	+49 (0)551/19240
Telef	ax: +49 (0)551/3831881
	ation of the substance or mixture n according to Regulation (EC) No 1272/2008
Classificatio	n according to Regulation (EC) No 1272/2008 GHS02 flame
Classificatio	n according to Regulation (EC) No 1272/2008
Classification Flam. Liq. 3	n according to Regulation (EC) No 1272/2008 GHS02 flame H226: Flammable liquid and vapour. GHS08 health hazard
Classification Flam. Liq. 3 Repr. 2	n according to Regulation (EC) No 1272/2008 GHS02 flame H226: Flammable liquid and vapour. GHS08 health hazard H361d Suspected of damaging the unborn child.
Classification Flam. Liq. 3	n according to Regulation (EC) No 1272/2008 GHS02 flame H226: Flammable liquid and vapour. GHS08 health hazard H361d Suspected of damaging the unborn child. H372 Causes damage to the hearing organs through prolonged or repeated expose
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Classification Flam. Liq. 3 Flam. Liq. 3 Repr. 2 STOT RE 1 Contemport Skin Irrit. 2	n according to Regulation (EC) No 1272/2008 GHS02 flame H226: Flammable liquid and vapour. GHS08 health hazard H361d Suspected of damaging the unborn child. H372 Causes damage to the hearing organs through prolonged or repeated expose Route of exposure: Inhalation.
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The product is classified and labelled according to the CLP regulation.



Signal word Danger

Hazard-determining components of labelling:

styrene

- Hazard statements
- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361d Suspected of damaging the unborn child.
- H335 May cause respiratory irritation.
- H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P201 Obtain special instructions before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

3. Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 100-42-5	STYRENE	20-<
EINECS: 202-851-5	Flam. Liq. 3, H226;Repr. 2, H361d; STOT RE 1, H372;	50%
Reg.nr.: 01-2119457861-32	Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315;	
	Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3,	
	H412	

Additional information: For the wording of the listed hazard phrases refer to section 16.

4. First-aid measures

4.1 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.

Personal protection for the First Aider.



Take affected persons out of danger area and lay down. In case of irregular breathing or respiratory arrest provide artificial respiration. Immediately remove any clothing soiled by the product. After inhalation: Supply fresh air or oxygen; call for doctor. 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. Then consult a doctor. Call a doctor immediately. After swallowing: Do not induce vomiting; call for medical help immediately. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available. 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available. **Firefighting measures** 5.1 Extinguishing media Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water. 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. 5.3 Advice for firefighters **Protective equipment:** Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Additional information Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Avoid contact with the eyes and skin. Ensure adequate ventilation Do not inhale gases / fumes / aerosols. Keep away from ignition sources. 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Do not flush with water or aqueous cleansing agents 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. Handling and storage 7.1 Precautions for safe handling Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

5.

6.

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Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Fumes can combine with air to form an explosive mixture. Protect against electrostatic charges. Use explosion-proof apparatus / fittings and spark-proof tools. Ground/bond container and receiving equipment. 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. Store away from foodstuffs. Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Store receptacle in a well ventilated area. Protect from heat and direct sunlight. Keep ignition sources away - Do not smoke. Recommended storage temperature: < 30 °C 7.3 Specific end use(s) No further relevant information available. Exposure controls and personal protection Additional information about design of technical facilities: No further data; see item 7. 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace: 100-42-5 styrene

WEL(Great Britain)	Short-term value:	1080 mg/m³, 250 ppm
	Long-term value:	430 mg/m³, 100 ppm

DNELs

8.

100-42-5 Style				
Oral	Long-term exposure - systemic effects	2.1 mg/kg bw/day (general population)		
Dermal	Long-term exposure - systemic effects	343 mg/kg bw/day (general population)		
		406 mg/kg bw/day (worker)		
Inhalative	Long-term exposure - systemic effects	10.2 mg/m ³ (general population)		
		85 mg/m³ (worker)		
	Acute/short-term exposure –			
	systemic effects	174.25 mg/m ³ (general population)		
	289 mg/m³ (worker)			
	Acute/short-term exposure - local effects 182.75 mg/m ³ (general population)			
		306 mg/m³ (worker)		

PNECs

100-42-5 styrene		
PNEC	aqua 0.028 mg/l (freshwater)	
	0.0028 mg/l (marine water)	
	0.04 mg/l (intermittent releases)	
PNEC	sediment 0.614 mg/kg (freshwater)	
	0.0614 mg/kg (marine water)	
PNEC STP	5 mg/l	
PNEC soil	0.2 mg/kg (soil dw)	
Additional information: The lists valid during the making were used as basis.		
8.2 Exposure	controls	
Personal protective equipment:		
General prote	ctive and hygienic measures:	
Do not inhale of	ases / fumes / aerosols.	

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Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

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

Store protective clothing separately.

After contact with skin, wash immediately with plenty of soap and water.

Take off contaminated clothing.

Use skin protection cream for skin protection.

Respiratory protection:

Ensure good ventilation/exhaustion at the workplace.

Adhere to the workplace limit values and / or other threshold values.

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.

Filter A/P2

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

Check the permeability prior to each anewed use of the glove.

Preventive skin protection by use of skin-protecting agents is recommended.

Material of gloves

Fluorocarbon rubber (Viton)

Recommended thickness of the material:
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

Value for the permeation: Level < 6 (> 480 min)

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

Not suitable are gloves made of the following materials:

Natural rubber, NR Chloroprene rubber, CR Nitrile rubber, NBR Butyl rubber, BR PVC gloves

Eye protection:



Tightly sealed goggles Body protection: Protective work clothing

9. Physical and chemical properties 9.1 Information on basic physical and chemical properties General Information Appearance: Form: Pasty Colour: Light brown

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Odour:	Characteristic			
Odour threshold:	Not determined.			
pH-value:	Not determined.			
Change in condition				
Melting point/Melting range:	Undetermined.			
Boiling point/Boiling range:	145 °C			
Flash point:	31 °C			
Flammability (solid, gaseous):	Not applicable.			
Ignition temperature:	480 °C			
Decomposition temperature:	Not determined.			
Self-igniting:	Product is not selfigniting.			
Danger of explosion:	Product is not explosive. However, formation of explosive			
. .	air/vapour mixtures are possible.			
Explosion limits:				
Lower:	1.2 Vol %			
Upper:	8.9 Vol %			
Vapour pressure at 20 °C:	6 hPa			
Density at 20 °C:	1.04 g/cm ³			
Relative density	Not determined.			
Vapour density	Not determined.			
Evaporation rate	Not determined.			
Solubility in / Miscibility with	New State Protocols (1999) - 16 (State State)			
water:	Not miscible or difficult to mix.			
Partition coefficient (n-octanol/wat	ter): Not determined.			
Viscosity: Dynamic:	Not determined.			
Kinematic:	Not determined.			
9.2 Other information	No further relevant information available.			
Stability and reactivity				
10.1 Reactivity No decomposition if	used according to specifications.			
 10.2 Chemical stability No decomposition if used according to specifications. 10.3 Possibility of hazardous reactions Reacts with peroxides and other radical forming substances. Exothermic polymerisation. 				
			10.4 Conditions to avoid	
			Protect from heat.	
			Avoid naked flames, sparks, other ig	
10.5 Incompatible materials: No fun				
10.6 Hazardous decomposition pro				
Formation of toxic gases is possible	during heating or in case of fire.			
Toxicological information				
11.1 Information on toxicological e	effects			
Acute toxicity:				
I D/I C50 values relevant for classi	fication			

LD/LC50 values relevant for classification:100-42-5 styreneOralLD50DermalLD 50>2000 mg/kg

Inhalative

5000 mg/kg (rat) >2000 mg/kg (rat) (OECD 402) 11.8 mg/l (rat)

Primary irritant effect: Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

LC50 /4h

10.



Subacute to chronic toxicity:	
100-42-5 styrene Inhalative NOAEL (subacute) 0.85 mg/l (rat) (13w, 6h/day, Vapour)	
NOAEL (subchronic) 0.8 mg/l (rat) (OECD 453, 2a, 6h/day, Vapour)	
Additional toxicological information:	
Causes damage to the hearing organs through prolonged or repeated exposure. Route Inhalation.	of exposure:
Sensitisation No sensitising effects known.	
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	
Suspected of damaging the unborn child. Carcinogenicity	
100-42-5 styrene	
Inhalative NOAEL (carcinogenicity) 4.34 mg/l (rat) (OECD 453, 2a, 6h/day, 5d/week, Va	apour)
Reproductive toxicity/Fertility	
100-42-5 styrene Inhalative NOAEL (fertility) 0.65 mg/l (rat, parents) (OECD 416, Vapour)	
0.22 mg/l (rat, F2) (OECD 416, Vapour)	
2.2 mg/l (rat) (OECD 416, Parents, Vapour)	
Reproductive toxicity/Teratogenicity	
100-42-5 styrene Inhalative NOAEL (developmental toxicity) 2.6 mg/l (rat)	
NOAEL (teratogenicity) 2.6 mg/l (rat)	
LOAEL (maternally) 1.3 mg/l (rat)	
Germ cell mutagenicity Based on available data, the classification criteria are not met Carcinogenicity Based on available data, the classification criteria are not met.	t.
Reproductive toxicity	
Suspected of damaging the unborn child.	
STOT-single exposure	
May cause respiratory irritation. STOT-repeated exposure	
Causes damage to the hearing organs through prolonged or repeated exposure. Route	of exposure:
Inhalation.	
Aspiration hazard Based on available data, the classification criteria are not met.	
Ecological information	
12.1 Toxicity Aquatic toxicity:	
100-42-5 styrene	
EC10/96h 0.28 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050)	
EC50/48h 4.7 mg/l (daphnia magna) (OECD 202)	
EC50/72h 4.9 mg/l (Pseudokirchneriella subcapitata) (EPA OTS 797.1050) EC50/0.5h ≈ 500 mg/l (activated slugde) (OECD 209)	
LC50/96h 4.02 mg/l (pimephales promelas)	
NOEC 1.01 mg/l (daphnia magna) (OECD-211 21d)	
12.2 Persistence and degradability 100-42-5 styrene	
Biodegradation 70.9 % (activated slugde) (ISO DIN 9408, 28d, aerob)	
12.3 Bioaccumulative potential	
100-42-5 styrene	
log Kow 2.95 BCF 74 (calculated)	
13.5 (fish)	
Behaviour in environmental systems:	
12.4 Mobility in soil	
100-42-5 styrene	

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	log Koc 2.55 Koc 352 Additional ecological information: General notes: Do not allow product to reach ground water, wa Danger to drinking water if even small quantitie 12.5 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 12.6 Other adverse effects No further relevant	s leak into the ground.
13.	Waste disposal key:	residues
14.	Transport information 14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG, IATA 14.3 Transport hazard class(es) ADR, IMDG, IATA	UN1866 1866 RESIN SOLUTION, special provision 640E RESIN SOLUTION
	Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ)	Not applicable. 5L Code: E1 Maximum net quantity per inner packaging: 30 ml
	Transport category Tunnel restriction code	Maximum net quantity per outer packaging: 1000 ml 3 D/E



Remarks:	IMDG-Code 2.3.2.5 <450 l: -
IMDG Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Remarks: UN "Model Regulation":	IMDG-Code 2.3.2.5 30 l: - UN1866, RESIN SOLUTION, special provision 640E, 3, III

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
European regulations
Directive 2004/42/EC 2004/42/IIB (b) (250) <250
Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
Seveso category P5c FLAMMABLE LIQUIDS
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
National regulations:
Information about limitation of use:
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
Other regulations, limitations and prohibitive regulations
Adhere to the Ordinances on the Prohibition of Certain Chemicals.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. Polyester resin for multi-component systems (base + hardener) must be declared with UN no. 3269 according to GGVS/ADR and IMDG-code. * indicates text in the SDS which has changed since the last

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.

revision.

Relevant phrases

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging unborn child
- H372 Causes damage to the hearing organs through prolonged exposure. Route of exposure: Inhalation
- H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

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International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized 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 Flam. Liq. 3: Flammable liquids, Hazard Category 3 Acute Tox. 3: 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 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2