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Safety data sheet

according to 1907/2006/EC, Article 31 V - 5 Printing date 07.06.2016 Revision: 06.06.2016 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: PAINT SYSTEM FEW · 1.2 Relevant identified uses of the substance or mixture and uses advised against Not determined · Application of the substance / the mixture Knife filler/ Surfacer \cdot 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Vosschemie GmbH Esinger Steinweg 50 D-25436 Uetersen Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de · Further information obtainable from: Abteilung Labor / +49 (0)4122 717 0 s.schaller@vosschemie.de · 1.4 Emergency telephone number: Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland Phone: +49 (0)551 19240 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame *Flam. Liq. 3 H226 Flammable liquid and vapour.* GHS08 health hazard (Contd. on page 2) GB



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Frade name: PAINT	SYSTEM FEW	
		(Contd. of page 1
Repr. 2 H3	61d Suspected of damaging the unborn child.	
STOT RE 1 H3		prolonged or repeated exposure Pout
	of exposure: Inhalation.	
GHS0	7	
Skin Irrit. 2 H3	15 Causes skin irritation.	
Eye Irrit. 2 H3	19 Causes serious eye irritation.	
· 2.2 Label element	ıts	
	ling to Regulation (EC) No 1272/2008	
	assified and labelled according to the CLP regulatio	n.
• Hazard pictogra	ms	
- / Mc / 1		
GHS02 GHS		
GHS02 GHS	07 GHS08	
· Signal word Dat	ager	
· Hazard-determi	ning components of labelling:	
styrene	ing components of working.	
· Hazard statemer	nts	
	le liquid and vapour.	
H315 Causes s		
H319 Causes s	erious eye irritation.	
	l of damaging the unborn child.	
Inhalatio		r repeated exposure. Route of exposure
• Precautionary s		
P101	If medical advice is needed, have product contain	er or label at hand.
P102 P201	Keep out of reach of children.	
P201 P210	Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open	n flames and other ignition sources N
1210	smoking.	n jumes and other ignition sources. N
P260	Do not breathe mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye pro	<i>v</i> 1
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for sev present and easy to do. Continue rinsing.	veral minutes. Remove contact lenses,
P308+P313	<i>IF exposed or concerned: Get medical advice/atte</i>	ention.
P405	Store locked up.	
P501	Dispose of contents/container in accordance wi regulations.	th local/regional/national/internationa
· 2.3 Other hazar	ls	
	und vPvB assessment	
• PBT: Not applic		
• vPvB: Not appli	rahle	

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SECTION 3: Composit	ion/information on ingredients	
• 3.2 Chemical characterisation • Description: Mixture of subs	on: Mixtures tances listed below with nonhazardous additions.	
· Dangerous components:		
CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	styrene Flam. Liq. 3, H226; Sepr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	10-<20%
CAS: 2687-91-4 EINECS: 220-250-6	1-ethylpyrrolidin-2-one	0.1-<0.3%

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

SECTION 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.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.
- · 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.

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sawdust).

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· 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.

SECTION 6: 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,
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.	

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Keep receptacles tightly sealed.	
Ensure good ventilation/exhaustion at the workplace.	
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	



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· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8 1 Control parameters

· 8.1 Contro	-			
 Ingredient 	ts with	limit values that require monitoring a	t the workplace:	
100-42-5 s	tyren	2		
WEL (Gree	at Bri	tain) Short-term value: 1080 mg/m³, 25	50 ppm	
		Long-term value: 430 mg/m ³ , 100	ppm	
· DNELs				
100-42-5 s	tyren	2		
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/m ³ (worker)	
	Acute	e/short-term exposure - systemic effects	174.25 mg/m ³ (general population)	
			$289 mg/m^3$ (worker)	
	Acute	e/short-term exposure - local effects	182.75 mg/m ³ (general population)	
			306 mg/m ³ (worker)	
· PNECs			·	
100-42-5 s	tyren	2		
PNEC aqu	a	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 ST	Р	5 mg/l		

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

PNEC soil

· Personal protective equipment:

· General protective and hygienic measures:

0.2 mg/kg (soil dw)

Do not inhale gases / fumes / aerosols. 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. Immediately remove all soiled and contaminated clothing After contact with skin, wash immediately with plenty of soap and water. Take off contaminated clothing.

Use skin protection cream for skin protection.

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• General Information

• Appearance:	
Form:	Pasty
Colour:	White
· Odour:	Characteristic

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• Change in condition Melting point/Melting range: Boiling point/Boiling range:	
· Flash point:	31 °C
· Ignition temperature:	480 °C
• 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:	1.9 g/cm ³
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
• 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No decomposition if used according to specifications.
- 10.2 Chemical stability No decomposition if used and stored 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 ignition sources and sunlight.

- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:
- Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	values relev	ant for classification:
100-42-5 s	tyrene	
Oral	LD50	5000 mg/kg (rat)
Dermal	LD 50	>2000 mg/kg (rat) (OECD 402)
Inhalative	LC50 /4h	11.8 mg/l (rat)
2687-91-4	1-ethylpyrr	olidin-2-one
Oral	LD50	3200 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 2000 mg/kg (rat) (OECD 402)
Inhalative	LC 50 / 4h	> 5.1 mg/l (rat) (OECD 403, Aerosol)
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ade name: P	AINT SYSTEM F	EW		
	ritant effect: sion/irritation			(Contd. of page 7
· Serious eye	n irritation. e damage/irritatio n ious eye irritation.	ı		
	o chronic toxicity:			
100-42-5 st	•			
	NOAEL (subacute	0.85 ma/l	(rat) (13w, 6h/day, Vapour	r)
			at) (OECD 453, 2a, 6h/da	
	toxicological info		<i>ui)</i> (<i>OLCD</i> 455, 2 <i>u</i> , <i>On</i> / <i>uu</i>	y, vapour)
Inhalation. · Sensitisatio · CMR effec	on No sensitising e	ffects known. mutagenicity d	and toxicity for reproducti	peated exposure. Route of exposure on)
· Carcinoge	, , , ,			
100-42-5 s	•			
Inhalative	NOAEL (carcinog	enicity) 4.34 n	ng/l (rat) (OECD 453, 2a,	6h/day, 5d/week, Vapour)
	ive toxicity/Fertilit	•		
100-42-5 st	-	,		
	•	0.65 mg/l (rat	parents) (OECD 416, Va	pour)
1	() () () () () () () () () () () () () (e .	F2) (OECD 416, Vapour)	
		e .	(OECD 416, Parents, Vap	
Donno dreat	ina tamiaitu/Tanata		(0202 110, 1 ch chub, + up	,
• Keproaucii 100-42-5 si	ive toxicity/Teratog	genicuy		
	NOAEL (developn	nantal toxicity)	2.6 mg/l (rat)	
	NOAEL (<i>ueveloph</i> NOAEL (<i>teratoge</i>		2.6 mg/l (rat) 2.6 mg/l (rat)	
	LOAEL (maternal	•	1.3 mg/l (rat)	
Correct coll		•	data, the classification cri	
Carcinoget Reproducts Suspected STOT-sing STOT-repe Causes dat	nicity Based on av ive toxicity of damaging the un the exposure Based cated exposure umage to the hea	ailable data, th aborn child. I on available d	e classification criteria ar lata, the classification crit	e not met.
Inhalation. • Aspiration		available data,	the classification criteria	are not met.

SECTION 12: 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)

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. • *Waste disposal key:*

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· European waste catalogue

07 02 08* other still bottoms and reaction residues

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· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number ADR, IMDG, IATA	UN1866
14.2 UN proper shipping name ADR IMDG, IATA	1866 RESIN SOLUTION mixture RESIN SOLUTION mixture
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category	Warning: Flammable liquids. 30 F-E,S-D A
14.7 Transport in bulk according to Anna	
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E
Remarks:	ADR 2.2.3.1.5
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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SECTION 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
- · 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.

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

- 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.
- H360D May damage the unborn child.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: Abteilung Labor

· Contact: Frau S. Schaller

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative (Contd. on page 12)



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SVHC: Substances of Very High Concern Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Repr. 1B: Reproductive toxicity – Category 1B Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 • * Data compared to the previous version altered.

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